## Building Blocks To Innovation

## **2009 Annual Report**







# What's **FIRST**?

It's a world where science and technology are celebrated. Where ordinary youth ages 6 to 18 can accomplish extraordinary things. Where competition is fierce but cooperation between adversaries is rewarded. Where technology-savvy adults can mentor the next generation of budding scientists and engineers. The goal of *FIRST*<sup>®</sup> is to develop in the world's young people a lasting interest in science and technology through participation in a "sport for the mind."

#### Inspiring young minds

Founded by Dean Kamen in 1989 to "turn young people on" to career opportunities in science, technology, engineering, and math, FIRST is a 501(c)(3) not-for-profit organization that designs accessible, motivational programs combining teamwork, competition, and just plain fun. FIRST helps young people build self-confidence, knowledge, life skills, career paths, and a sense of "Gracious Professionalism"." This year, thanks to more than 85,000 committed adult volunteers, more than 196,000 young people from all U.S. states and 50 other countries were introduced to the joys of problem solving through engineering.

#### Building blocks of learning

Four different *FIRST* programs, starting in elementary school and continuing through middle and high-school levels, act as building blocks to help participants master skills and concepts they take with them from one level to the next. Tapping into the selfless support of thousands of volunteers, mentors, sponsors, educational institutions, and government, teams from six to more than 25 students each accept the challenge to do research or to fund, design, build, and compete with robots of their own creation in local, national, and international contests

#### Changing lives, one at a time

FIRST brings people of all ages and backgrounds together with the goal of making a positive impact on how kids think about themselves and what they'll do with their lives. Some team members design and build robots. Others help raise funds and create publicity. Some create team names, logos, and competition outfits. The skills they learn along the way all but guarantee them extraordinary career opportunities in a host of exciting fields.

#### An outlet for giving back

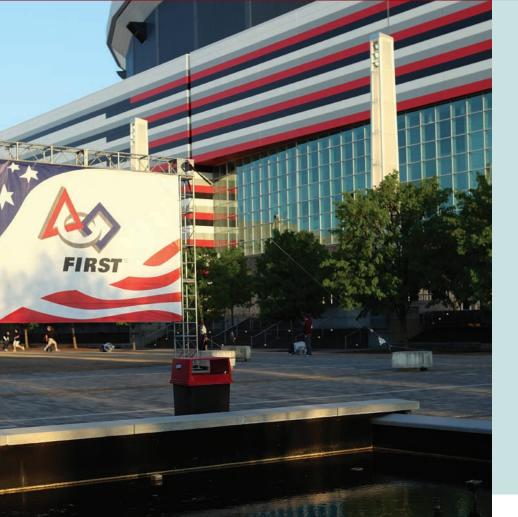
FIRST represents an exceptional opportunity for motivated individuals, institutions, and corporations to get involved in something that helps young people today, and will provide dividends for all of us tomorrow. We hope you will consider joining with FIRST in our quest to change the world for the better, igniting one young mind at a time.

#### And that's what FIRST is all about

For Inspiration and Recognition of Science and Technology.

As founder and celebrated inventor Dean Kamen explains

**FIRST** learning never stops building upon itself, starting at age six and continuing through middle and high-school levels up to age eighteen. Young people can participate at any level. Participants master skills and concepts to aid in learning science and technology through robotics.



Jr.F. Junior FIRST<sup>®</sup>LEGO<sup>®</sup> Grades K-3 (age

> Challenge Construction and Resea

Components LEGO® Education Simple & M Mechanisms Set LEGO<sup>®</sup> Education We D **Robotics Construction S** 

> Disciplines **Basic STEM\***

Showcase Thematic Design/Model Show-Me Poster

Software LEGO<sup>®</sup> Education We D Robotics Construction Softw

> Teaches **Basic STEM\*** Interpersonal Skill **Building Skills** Team Work Interactive Problem S Gracious Professional

Introduced in 2009 "Smart Mov

"Someday, some kid in FIRST right now will cure Alzheimer's, or cancer, or build an engine that doesn't pollute. They're the future, and we're part of it by helping them figure out what to do with their lives."

FIRST Facts 2009

Youth participants

cted

				196,000 (ages 6-18)
				Mentors and volunteers
				85,000
L	FLL.	FTC	FRC	Number of hours donated by volunteers
		FIRST <sup>®</sup> Tech Challenge	FIRST <sup>®</sup> Robotics Competition	5,715,980
League	FIRST <sup>®</sup> LEGO <sup>®</sup> League			U.S. States participating
es 6-9)	Grades 4-8 (ages 9-16) ages 9-14 in the US and Canada	Grades 9-12 (ages 14-18)	Grades 9-12 (ages 14-18)	50
	ages 9-14 in the OS and Canada			Countries participating
	Challenge	Challenge	Challenge	51
anah	Construction and Thematic Solution	la l	Engineering for results; industrial	
earch		Engineering (real-world engineering challenges)	grade up to 130 lb. robots	FRC recognition
	Construction, Programming, and Research		Components	56,000 medallions, 2,900 trophi
Motorized	Components	Components	FIRST Radio Control Set, Sensors	FTC recognition
D TH	LEGO® MINDSTORMS®	Pitsco TETRIX™, LEGO® MINDSTORMS® Education Robot Set, Sensors and Controllers	and Controllers, Motors, Advanced	
Do™ Set■	Education Robot Set & Custom Assembled Field Component Set		Visual Systems	3,780 medallions, 495 trophies
		Disciplines	Disciplines	FLL recognition
	Disciplines	STEM*	STEM*	40,000 medallions,
	STEM*	Competition	Competition	more than 1,000 trophies
	Competition	Real-World Competitive Challenge/	Sporting Event	Cabalayahiya ayailahla
Building	Programming	Sporting Event		Scholarships available
	Thematic Problem Solving	Software	Software	630 worth close to \$9,800,000
	Research Project	LabVIEW <sup>™</sup> , RobotC, NXT-G	LabVIEW™, C++, Java™	Corporate sponsors
Do™	Exhibition and Robotic Competition		Teaches	3,500
tware	Team Work	Teaches	Advanced Control	FRC donated parts
	Software	Programming	Business Planning	389,300
	LEGO <sup>®</sup> MINDSTORMS <sup>®</sup>	Sensor Usage	Engineered Product for Real World	303,300
s	Education NXT-G	Advanced Control	Engineering Constraints	Number of robots construct
3	Teaches	Engineering Method	Industrial Design	16,374
	Cause & Effect	Real-Time Prototyping	Project Management	Growth of FIRST
olving	Team Work	Project Management	Team Work	participation (over 2008)
lism™	Programming	Industrial Design	Time & Project Management	23%
	Research & Presentation	Team Work	Reliability	
	Critical Thinking	Tactical Thinking Gracious Professionalism™	Strategic and Tactical Thinking	Participants who have a meaningful learning experier
ove" Season	Gracious Professionalism™	oracious Proiessionansin"	<i>Coopertition</i> ™	
000 000000			Gracious Professionalism™	100%

\*STEM is Science, Technology, Engineering, Math



"There will never be a shortage of opportunities for people who know how to solve problems."



#### Dean Kamen, *FIRST* Founder

#### Founder's & Chairman's Letter

Science and the world of FIRST share the commonality of building blocks. Just as scientists, engineers, and inventors use the building blocks of recorded prior knowledge and discovery to create new wonders, or to improve on old ones, FIRST participants meld their own discoveries and problem-solving skills with those of their teammates, coaches, and predecessors to innovate new solutions to their current challenges.

That's the beauty of FIRST - young people can jump into any program at any time, learn new skills and concepts, and bring those building blocks with them as they move through the more challenging (and fun) programs and on to college and careers. The younger we can "hook" them on the fun and excitement of science and technology, the better chance we have of producing a new generation of innovative problem solvers who will literally change the world. We believe there are kids in *FIRST* right now who will cure cancer, or build a non-polluting engine, or win a Nobel Prize, or innovate solutions to problems about which we do not yet know. Moving through the continuum of our four programs gives them a chance to discover what they are capable of, how far they can go, and the many rewarding career opportunities awaiting them in science and technology.

Our students' ideas, enthusiasm, creativity, can-do spirit, inquisitiveness, and don't-know-it-can't-be-done spark are the building blocks to the innovations of tomorrow. Which means we need to renew our efforts to support and expand the FIRST family of programs into as many corners of the globe as possible. In 2009, record numbers of you volunteered your talents, experience, vast amounts of time, and financial support. To every mentor, volunteer, sponsor, parent, and team member, we humbly thank you. Many more of you will be needed from our schools, our communities, and our corporations. To help us continue to grow, we urge you to be a FIRST "building block," sharing your enthusiasm and passion for this truly amazing organization with those around you. Let's all invest in some really talented kids.

Dean Kamen, FIRST Founder

John Abele, FIRST Chairman



Dean Kamen & Paul R. Gudonis

What's FIRST?	page 2
Founder's & Chairman's Letter	page 5
President's Letter	page 7
Junior <i>FIRST®</i> LEGO® League	page 8
FIRST® LEGO® League	page 10
FIRST® Tech Challenge	page 12
FIRST® Robotics Competition	page 14
Sponsors	page 16
2009 Woodie Flowers Award	page 17
2009 Woodie Flowers Award 2009 Scholarship Program	
	page 19
2009 Scholarship Program	page 19 page 21
2009 Scholarship Program 2009 Founder's Award	page 19 page 21 page 23



"This is the only sport I know of where everybody who plays can become a pro."

#### Walter P. Havenstein, CEO, SAIC

#### President's Letter

The stories continue to amaze me.

A young woman tells me she is a volunteer mentor because as a high-school sophomore contemplating dropping out, she was encouraged to join the school's *FIRST* robotics team. She ended up graduating from high school, earned a college degree in mechanical engineering, and is now a product designer. She now "gives back" because of the huge impact *FIRST* had on her life.

A mother says, "Thank you, *FIRST*. You changed my son's life. He struggled in high school, and thanks to a patient, encouraging mentor, he is now in college on a *FIRST* scholarship, with aspirations that would make any mother proud."

One team member I met has just applied for his first patent – he's 16! Another is using his newly-developed skills to overcome a visual disability by developing a distance vision system so that he can get a driver's license, and then offer this technology to millions of other visually-impaired individuals. Another convinced her state legislature to provide \$150,000 in funding to start more *FIRST* teams.

There are thousands of such stories of inspiration, innovation, and contributions of time, talent, and resources to create the science and technology heroes we need in our future. On behalf of the *FIRST* board of directors and staff, I want to thank the 85,000 volunteers, 3,500 corporate sponsors, and the many teachers, parents, friends, and fans that make *FIRST* happen. Through your support, hundreds of thousands of young people are participating in this "sport for the mind," changing our culture – and our lives – for the common good.

Despite the economic challenges, through your personal efforts and financial support, *FIRST* was able to engage more youth for another record year of team growth. We are poised to do so again in the coming season, with new *FIRST*<sup>®</sup> Robotics Competition events in North Carolina, Utah, and Massachusetts; with new *FIRST*<sup>®</sup> Tech Challenge volunteer partners in 10 states; with additional *FIRST*<sup>®</sup> LEGO<sup>®</sup> League partners, coaches, and teams; and with a growing number of six to nine year-olds in the Junior *FIRST*<sup>®</sup> LEGO<sup>®</sup> League program. Thank you for igniting the passions of these students and helping to create the innovators our society needs.

Fren R. 600000

Paul R. Gudonis, FIRST President



# F E Junior FIRST<sup>®</sup> LEGO<sup>®</sup> League



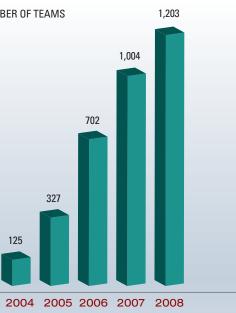
In its fifth year, the Junior FIRST® LEGO® League (Jr.FLL®) program grew 20 percent to reach a total of 1,203 teams in the U.S. and Canada. Geared toward six to nine year-olds (Grades K-3), Jr.FLL introduces the youngest of school-age children to the fun and excitement of solving problems with science and technology. Guided by adult coaches, teams of up to six children are presented with a real-world challenge based on the same theme as the FIRST® LEGO® League program, to be solved by research, critical thinking, and imagination. In the 2008 "Climate Connections" Challenge, teams investigated the earth's climate, built LEGO models made out of LEGO elements including a moving part, and created a Show-Me poster depicting their research journey.

Jr.FLL teams are encouraged to gather together to share their projects and experiences with family and friends. In 2008, more than 40 Expos were held in communities across the U.S. and Canada.

NUMBER OF TEAMS

"FIRST gave me the ability to work with my son as a mentor and to teach the values of sportsmanship. We have ignited the flame of enthusiasm for grades K-5."

## Junior FIRST<sup>®</sup> LEGO<sup>®</sup> League



Doug Geiman, Jr.FLL® Coach



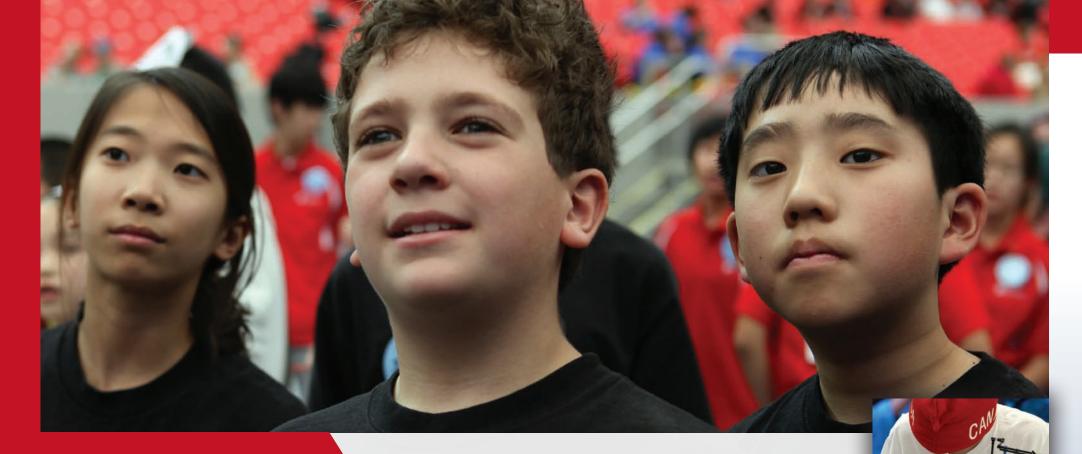
Coach Dr. Pellom McDaniels III, Ellington (age 7), Jack (age 8), Seth (age 8), Coach Chad Philips Front row - From left to right: Blaise (age 9), Nora (age 7), Ben (age 9).

#### Coach Dr. Pellom McDaniels III

Dr. Pellom McDaniels III, Assistant Professor of History and American Studies at the University of Missouri-Kansas City, was introduced to robotics when his six-year-old son pleaded to be taken to a local FIRST event. The seeds of excitement sown that day inspired not only father and son, but an entire community.

Dr. McDaniels, assisted by parents and teachers, formed the Brainiac Attack Robotics Club (BARC) at Academie Lafayette French Charter School in Kansas City, Missouri, to participate in Junior FIRST LEGO League. They learned respect for the environment and how they can have an impact; researched real-world problems; asked questions, sought answers, and deliberated over their ideas; and enjoyed traveling and meeting other teams. As their confidence grew, they explored robot building and simple programming in preparation for their progression to FIRST LEGO League.

Today, BARC has grown to three teams. Working with FIRST LEGO League Operational Partner, Anna Simmons, Dr. McDaniels has also grown the Jr.FLL presence in the area. To bring in more children from underserved schools in the urban core, the pair trains teachers and counselors to add robotics to their curriculum. The schools, in turn, recruit parents to run teams. As a result, people see that it's not difficult to implement the Jr.FLL program, it just takes a coordinated effort. Starting from the excitement of a six-year-old, an entire community now works to turn youngsters on to science and technology.



# ▎╛ц└ FIRST<sup>®</sup>LEGO<sup>®</sup>League



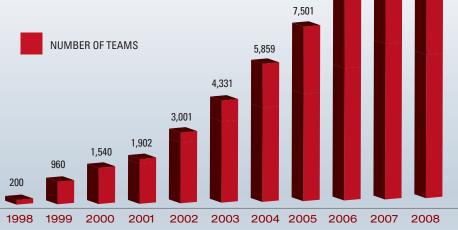
## Marking its tenth anniversary season,

the FIRST® LEGO® League (FLL®) grew 25 percent to a total of 13,705 teams participating in 50 countries. The 2008 "Climate Connections" Challenge asked teams comprised of nine to sixteen year-old children (nine to fourteen in the U.S. and Canada) to apply research and robotics to explore the earth's

climate. Using LEGO MINDSTORMS® technologies and LEGO Education materials, more than 137,000 children learned about past climates, delved into questions about our current climate, and explored conditions for the future through missions such as minimizing climatic influences, sequestering greenhouse gases, studying wildlife, and preparing for climatic conditions. The season included more than 450 qualifying events, 89 Championship Tournaments, and two Open Championships. It culminated at the FLL World Festival, where 84 teams gathered to celebrate their accomplishments and share their innovative solutions.

## FIRST<sup>®</sup>LEGO<sup>®</sup>League

to climate study.



Every FLL Challenge reflects an important real-world issue as a way to create awareness among young children, but also to show them how science and technology can contribute to solving problems. FIRST thanks the University of Massachusetts, Amherst, Department of Geosciences; the U.S. Army Cold Regions Research and Engineering Laboratory (CRREL); and the Massachusetts Institute of Technology Center for Collective Intelligence, for helping develop 10,941 a theme and robot missions reflective of the hurdles that scientists experience relative

> "ME a Coach? I could never do that. Well, two years under my belt and many 'Ah-Ha' moments later, I must say this is an adventure I'm glad I took."

> > Rhonda McMillen, FLL Coach and Mentor



13,705



Faith (age 12); Aydan (age 10); Alejandro (age 12); Bobby (age 12); Andrew (age 11); and Drew (age 10)

## "LEGO Guards" Team, Meadow Vista, CA

As children living in the foothills of California's Sierra Nevada mountains, the homeschooled 5th to 8th graders who make up the "LEGO Guards" FLL team are acutely aware of the devastating effects of wildfires. These young environmentalists participated in the 2008 FLL "Climate Connections" Challenge, devising an early wildfire detection system that could save lives, land, and property around the world. Their creativity really paid off.

Their solution uses a network of solar-powered closed-circuit TV cameras mounted throughout forests and linked to the Internet. Citizen fire watchers view the images on the Web to obtain advance warning of fires before they spread.

One of 56 teams from 29 countries chosen to attend the May 2009 Children's Climate Call (FLL Open European Championship) in Copenhagen, Denmark, organized by The LEGO Group and FIRST Scandinavia, the "LEGO Guards" were awarded the event's Sony<sup>®</sup> Climate Change Innovation Award. Working with Sony engineers and technologists to refine the idea and turn the concept into reality through a series of workshops, the team participated in key decisions, such as the type of Sony camera used and the software interface for users as they keep a lookout for fires.

The "LEGO Guards" are seeing their solution become a reality. The first camera was installed in the Lake Tahoe, California, area in November 2009, and the team exhibited their proof of concept on the Sony stand at the Bright Green Exhibition in Copenhagen during the United Nations Climate Change Conference (COP15) in December 2009.

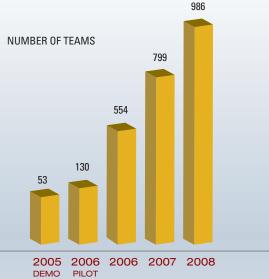


FIRST<sup>®</sup> Tech Challenge



For the 2009 season, more than 10,000 high-school students joined the ranks of the FIRST® Tech Challenge (FTC®). In 39 Regional Tournaments across the U.S. and Canada, 986 teams participated, with 100 of them securing a coveted spot to compete in the World Championship in Atlanta. In FTC's "FACE OFF!" challenge, teams of up to 10 students tried to outscore their opposing alliance by removing colored hockey pucks from eight different racks around a playing field and placing them in various locations in the center scoring area. Teams and their robots were also challenged with a rough or slippery terrain located in four areas of the field at the start and the end of the match. Guided by adult mentors and using engineering principles complete with an engineering notebook, FTC teams designed, built, and competed with a re-useable robot kit using a variety of programming languages.

FIRST Tech Challenge (FTC) is the newest and the fastest-growing FIRST program. Teams of up to 10 high-school students who want to compete head-to-head using a sports model get to design, build, and program robots. One of the most accessible programs, FTC applies real-world math and science concepts and develops problem-solving, organizational, and team-building skills.



"We teach according to the frameworks of the Department of Eduation, but this is how we draw them in.... The students love this and it really drives home the mathematics and science principles they are learning, and in a fun way."

Josselyn Winter **Electronics Teacher** Pathfinder Regional Vocational Technical High School

## FIRST<sup>®</sup> Tech Challenge



### Mannie Lowe, Georgia

Mannie Lowe will be the first to acknowledge he was a bit skeptical when his employer at the time, Applied Systems Intelligence, asked him to evaluate where he could provide support to FIRST<sup>®</sup> Robotics Competition (FRC<sup>®</sup>) teams. A professional project manager, Lowe was astounded at the design-build skills of FIRST teams, but found out that where they really needed help was in programming and project management.

What began as some corporate volunteer work quickly led to mentoring, pit announcing, coaching, regional planning committee involvement, and organizing for both the Peachtree FRC Regional and the Georgia FTC Tournament, and now, as FTC Affiliate Partner.

Mannie is committed to ensuring the quality of the FTC experience for students through expanded matches and qualifiers. His goal this year is to have a third field in place for Georgia's FTC Championship tournament. He believes strongly that FTC provides a great opportunity for students to advance through FIRST, with smaller teams, more hands-on work, accessible cost, and playing greater roles in a cohesive unit.

"We can quickly gauge if we're delivering a quality experience when we see the smiles on the students' faces. I love the program, I love the friends I've made, and above all, I'm proud of the contributions I've been able to make through FIRST. Without question, I would not have my present job as a technology instructor at Pace Academy if it weren't for FIRST."



## **FIRST**<sup>®</sup>**Robotics Competition**

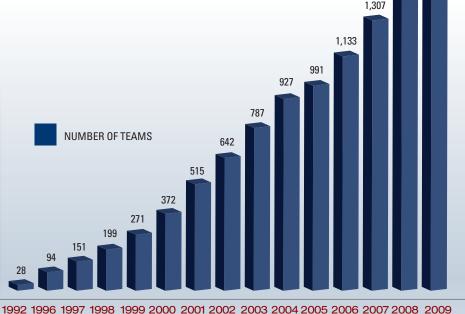
With the goal of creating a school-to-career pipeline through which young people are inspired to explore opportunities in science, technology, engineering, and mathematics (STEM), FIRST has the philosophy that today's culture can be positively transformed by inspiring young people, their schools, and their communities to appreciate the need for STEM education in 21st century education.





In the program's 18th season, more than 42,000 high-school students (1,683 teams, including 321 Rookie teams) from 48 states and 10 additional countries accepted the challenge

to compete in LUNACY<sup>TM</sup>. The game paid homage to the Apollo 11 mission during NASA's 40th anniversary of landing a man on the moon in July 1969. Navigating on a low-friction floor, robots were designed to pick up nine-inch 'Orbit Balls' and score them in trailers hitched to their opponents' robots for points during a two minute and 15 second match. Additional points were awarded for scoring a special game ball, the 'Super Cell,' in the opponents' trailers during the last 20 seconds of the match. Teams participated in 40 Regional Competitions, seven District Competitions, one State Championship (MI), and the international Championship at the Georgia Dome, Atlanta GA. All team members were eligible to apply for over \$9.8 million in college scholarships from over 130 providers



"I'm standing in front of some of the best and the brightest

in the U.S. and from around the world, and I know you are going to do things that people said could never be done."

Joe Astroth. Ph.D. Vice President of Learning and Education, Autodesk



#### Mike Hayes, Man of Science and Mystery

What compels a man of science and technology to focus on his artistic side? Ironically, for mechanical engineer Mike Hayes, it's FIRST.

A supply chain quality process leader for GE Transportation and theater buff, Mike has been a FIRST volunteer since 1998 and mentor to Team 291 since 1999. Along the way, Mike discovered a satisfying and lucrative way to combine his love of science and theater. Hayes writes, directs, produces, and performs "murder mystery" dinner plays whose profits support local FRC teams. During the past 11 years, he has raised over \$100.000 for the teams.

"Solving a mystery and conquering a design challenge aren't really all that different," Hayes says. "Both present you with a puzzle that is solvable, but only by paying attention to the details. And in both cases, it's an awful lot of fun to know that you've solved it."

Hayes' theater group does one production a year conceived from a variety of subjects, including politics, the Internet, and the nightly news. His current show is titled Zootsuits and Zipguns. GE is the major sponsor, underwriting food and providing the performance facility. The "actors" are a combination of GE employees, FIRST students, and people who just want to have fun. Hayes says it's not too difficult to corral the players. "All you need is a sense of adventure, a good sense of humor, and a knack for improvisation."

Hayes never loses sight of the ultimate goal: inspiring more young people by raising money for FIRST. With that in mind, he has a robot present at every performance so that "people can see what they are supporting by their attendance." In addition to the formal sponsors, suppliers, and contributors acknowledged on these pages, *FIRST* extends its sincere appreciation to the tens of thousands of volunteers who generously devote their time and expertise, and the thousands of sponsors of *FIRST Robotics Competition, FIRST Tech Challenge, FIRST LEGO League*, and *Junior FIRST LEGO League* teams and events. *FIRST* could not achieve the powerful impact it does without this tremendous support.

*FIRST* thanks all of our supporters and makes every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and please help us correct it by letting us know at 1-800-871-8326.

Jeffrey & Katherine Altschuler

Howard Anderson

#### KEY

- Member of the FIRST Board of Directors
- Member of the FIRST Executive Advisory Board
- FIRST Honorary Director
- Matching Gift

#### FIRST FOUNDING SPONSORS

Baxter International, Inc. Boston Scientific Corporation The Chrysler Foundation DEKA Research & Development Corporation Delphi Corporation General Motors Corporation Johnson & Johnson Kleiner Perkins Caufield & Byers Motorola, Inc. Xerox Corporation

#### FIRST STRATEGIC PARTNERS

BAE Systems The Boeing Company DEKA Research & Development Corporation FedEx Corporation General Motors Corporation Johnson & Johnson Motorola Foundation NASA (National Aeronautics and Space Administration) National Instruments Corporation Rockwell Automation, Inc. Rockwell Collins, Inc. 2008-2009 FIRST CONTRIBUTORS John Abele

#### John Abele Paul & Jacqueline Akert Mario Albuja & Norma Crespo Paul Allaire Joseph Alsop

Michael & Nancy Andes Ant's Eye View LLC Mario & Mary Mendez Ashla BAE Systems Employee Community Fund, Inc. David Baker David & Karen Bakkegard Thomas Ball & Nancy Gibbs **Bancroft-Clair Foundation** Lev & Monica Barinsky M.J. & S.R. Barlog Elizabeth C. Bellave Susan Bennett **Dennis & Catherine Berkey** Kenneth & Jill Bernstein Ruthann Bigley John & Cvnthia Boehm The Boeing Company 4 Jennifer Bowers Paul & Linda Brennan Jeanette Breton Daniel & Carol Singer Bricklin Ira & Myrna Brind Foundation David & Lori Brooks Susan Brownlee Sarah Brvant John T. Buchman William J. Budney Margaret Burch Lisa Butler Michael & Elizabeth Byrd Deborah A. Cahi David Calhoun Patti Camilo

Kristin Solberg Camorlinga Louis & Linda Capobianco Timothy & Carol Carman Tom & Marina Carpenter Scott Casavant Paula Catron Alexandra Cattelan Karen Cell The Jennifer A. Chalsty Foundation Thomas & Maureen Chapuran Marcos Chu **Bruce Churchill** The Claremont Colleges in honor of Dean Kamen **Richard & Nicole Clark** Neil Clemmons Michael Coll Community Group Therapy Consulting, LLC Deborah Conger George Conrades Harold Cooper **Creative Cities Summit** in honor of Dean Kamen Creative Problem Solving Institute in honor of Dean Kamen William & Ellen Cross Lori Dacko Dancing Tides Foundation Lawrence & Birgit Danziger Russell Dash Lynden Davis Mark & Susan Deacon Dale & Mitzi DeYoung DirecTV Matching Gift Center Robert & Carole Doody Karl Drehobl & Amy Alpert

McClellan Dubois Robert & Lynn Dunlop Dura-Crafts Terry & Patti Durkin John & Sharon Dusek e.Republic Incorporated in honor of Dean Kamen Marcus Eick & Yenny Eick-Guede Empire Entertainment in honor of Dean Kamen Employees Community Fund of The Boeing Company 🔶 Joseph & Angela Enrico Michael & Maomi Eskenazi Eureka Ranch Technology in honor of Dean Kamen Fabricators & Manufacturers Association in honor of Dean Kamen Facilitec, Inc. Milad Fathibitaraf Michelle Miller Ferreira Fidelity Charitable Gift Fund Joseph Fincher Margaret Fischer Jerry & Alane Fisher in memory of Jack Kamen Scott & Dawn Fitzgerald Forum Nokia in honor of Dean Kamen David & Wendy Fotland William Frazier Martin & Deborah Friedman Scott Frock Chris & Paula Fuld Todd & Marijane Gadbury Peter Gagnon Mark & Nancy Gallivan Christopher & Cynthia Galvin

Garuda, U.S. Inc. General Electric Foundation 🚸 Gerald & Laura Giammatteo GivingExpress Online Frank L. & Helen Gofrank Foundation Alfred G. Goldstein David Golman Google Matching Gifts Program 💠 Alexis & Edith Grabbe Edward Greco & Gina Gill Jeffrey & Wanda Greene The Greenspan Foundation John Gregor Wendy T. Gross Deborah L. Grubbe 🔳 Paul R. Gudonis Amin & Donna Hakin Robert Hammond Richard Hansen Brandon Hansen Scott D. Harmsen Harris Bank Foundation 🚸 **Richard Hart** Harvard Kennedy School in honor of Dean Kamen Yasuko Hata Brian & Lucinda Hautaniemi Walter 📕 & Judith Havenstein Michael Hayes Stephen & Lynn Hazard Brian Hendrickx John Herndon Leslie Herr Jeffrey & Lori-Jo Higgins Walter Hix Donna Holland

Eric Huang Kent Hughes 🔺 Intel Volunteer Grant Progra Internal Revenue Service, A Paul James Kamton & Edna Joe Scott & Charlene Jo Johns JPMorgan Chase Foundation Michael & Jacqueline Judi John & Nancy Kaindl Victoria Katzman Charles & Patricia Kennedy John R. Keough Anthony & Sharon Kerrison Elizabeth Kilchoer Jonathan & Jacqueline Kin Edward Klein Kollsman, Inc. Vincent & Suzanne Kral Steven Krawic Kield Kirk Kristiansen William & Allison Lacy David & Penny Lalejini Vincent Lam Shantija Larue Caroline Leach Robert & Hope Le Francis Diane Leibowitz Advarest & Lorraine Leorei Jerry & Diane Lester Jeffrev & Shannon Lewis Tom Liang Larry Liberto Library of Congress in hono Sitaram Lingam Lorman Education Services Lorman Education Services in honor of Dean Kame Paul & Susan Lucci David & Jeanette Lummis Kenneth & Kathleen Lutter Lux Research, Inc. in honor Paul Madson Anna Maenhout Deepak & Judith Malhotra Supone Manakasettharn Peter & Deborah Mancuso Sarah Manka Soundararaian Manthiri Siva Marella & Padmaja Tu Raymond & Pamela Marra The MASIE Center, Inc. Susie Mathieu Bart & Cheryl Mayforth Bruce & Susan McCarthy Earvin & Jeannette McClure Kirk McClure

Howard Honig



	Sheri McCoy 🗖
	McDowell's Auto Body
	Nina Lander McElroy
am Austin, TX	Michael McLeod in memory of Mr. & Mrs. Sims
	Matthew McQuaid
	Timothy & Helen McVey
on	Markus Meister & Elizabeth Gib
on	Microsoft Giving Campaign
ith	Amy, Michael, & Barbara Miles in honor of Dr. Thomas Weisser
	The Milk Money Foundation, Inc.
y	Roger & Tracy Miller
1	Chi Cao Minh
ı	William Miskovetz
	Gary & Diane Mitchell
a	Ann Moore
Ig	Laura Moore - Cunningham Foundation
	Robert & Venita Morell
	Noel & Antoinette Morlas
	Nancy Morris
	Paul & Anita Moss
	Amy Kaii Mottram
	Brian & Marian Murphy
	John Murphy
	Kerry Mushkin
	Timothy Mushkin
	David Neiman
	Leroy & Anita Nelson
id	Network for Good
	Matt & Lynne Neuerburg
	Cecilia Neuman 🔺
	Newman's Own Foundation
	Newry Corp. in honor of Dean Kamen
or of Dean Kamen	Karen Nichols
	Philip & Danielle Niedzwiecki
	Jeffrey Norris
5	,
s n	Norwich University in honor of Dean Kamen
	John & Valerie Novatny
	Melinda Nussey
	Thomas & Sandra Otremba
r of Dean Kamen	Robert  Robert
	Joseph & Candace Pascucci
	Marc Pawliger
	Linda Paxton
	Denis & Starr Pellerin
	Tim & Gail Peter
	Pheasant Hill Foundation
ımmala	Joseph Piacentine
	Eli Pick & Gloria Pruzan
	Jimmie Pierce
	Susan & Douglas Pohl
	Gordon & Susan Powell
	Robert & Stacy Pressman
e	Stacy Price
•	

Shivakumar Probhat in honor of NEC

Sheri McCov

Thomas & Jane Propst John & Stephanie Ptak PTC/USER, Inc. in honor of John Abele Craig & Susan Quisenberry Roger Quon **BAS** Communications Renita Prevot Insurance Agency Ariel Lauren Rideout Robin Riplev **RJG** Foundation David Robbie Steven Roberts E.R. Rodriguez & Betty Hilliard Alexander Romashkov Sheldon Rosen & Karen Hill Neil & Nancy Rosenberg Viola Rothenberg Phillip & Karen Roux J. Russell Sargent Production Services Dilip Sathe Roland Schmitt James & Cynthia Scholes Show Ready Events LLC Joan Sides Michael Silver Society of Manufacturing Engineers — Chapter 354 Thomas Spencer Edward & Karen Spofford Rebecca Spurling Gregory & Susan Stachelczyk Sterling Staffing, Inc. Jeffrey & Stephanie Stern **Raymond Stits** Martina Stoeckl Dia Stolnitz Erin Stone Mohana Sundaran K. Suresh Farrokh & Tanaz Sutari Takehiko Suzuki Joshua Sweetkind-Singer Dirk Sweigart & Angela Grimes Robin Sykes Virginia Szymanowski Carol Taft Scott & Martha Tardiff Robert Tash Teradata Corporation Gary & Annelise Tinkcom John Albert Toebes Joseph Trocino Robert Tuttle Karsten & Lisa Ulland Paul & Judy Ulland University of Maryland

in honor of Dean Kamen

John Novak 2009 Woodie Flowers Award Recipient Dr. William P. Murphy, Jr., Founder Cordis Corp. (left) presents award to John Novak

John Novak and his wife planned their wedding around *FIRST* and he warned her beforehand that he "had a thing for robots." An engineer at Baxter Healthcare, John has been a dedicated and irreplaceable presence on *FIRST* Robotics Competition (FRC) Team 16 "Baxter Bomb Squad" of Mountain Home, Arkansas, since the team's formation in 1996. At the *FIRST* Championship in Atlanta, John received the 2009 Woodie Flowers Award for demonstrating excellence in teaching science, math, and creative design.

Team members describe John as "the heartbeat and the brainwave of the Bomb Squad." From creating an electronics club to teaching evening engineering classes, John has given students the ability to independently use the knowledge he shares. He and his students volunteered to be a Beta test team for the new FRC control system, creating a road show to share their findings about the new system with more than 70 other teams.

John has helped the team survive tough times. He and his wife started a papershredding business to help with team finances and gave some team members much needed part-time jobs. He converted the basement of his home into a team build room. During a very aggressive ice storm, John used the generator that was powering his house to power the tools needed to finish this year's robot and ship it on time.

John has also given his time and talent to area *FIRST* LEGO League (FLL) and *FIRST* Tech Challenge (FTC) teams. In fact, every team John has coached or mentored has gone on to compete at the *FIRST* Championship. John is determined to reach kids and to make a difference in their lives. As his students put it, "None of us can imagine that anyone else could possibly do more for a team or live a life that embodies the message of *FIRST* so completely."



UTE City Charitable Trust Donna Van Ness Frederic & Melanie Varin David & Glenda Villarrubia James & Lynne Voot William Von Alt I Russell Wallace Cheryl Walsh Stacy Weaver Michael & Shari Webb Tom Wetherald Weverhaeuser Company Foundation Dr. Gary L. White Derek White Jennifer L. Wideman Daniela Wieczorek Vince Wilczynski Paulette Williams Tandy Wilson Todd Wolfson William R. Wright Shyam & Emily Yadati Richard & Geraldine Zimmerman

#### 2008-2009 PROFESSIONAL ASSOCIATIONS

Electronics Engineers)

(Fiscal vear July 1, 2008-June 30, 2009) American Electronics Association American Society of Mechanical Engineers (ASME) Association for Laboratory Automation (ALA) Corporation for Public Broadcasting (CPB) **Computer Science Teachers Association** Girl Scouts of the USA Girls, Inc. IEEE Institute (Institute of Electrical and

National 4-H Council National Defense Industrial Association National Society of Black Engineers Society of Automotive Engineers Society of Hispanic Professional Engineers Society of Manufacturing Engineers Society of Women Engineers (SWE) Women in Engineering Leadership Institute 2009 FIRST CHAMPIONSHIP SPONSORS

Official Championship Sponsors Abbott Laboratories Autodesk, Inc. BAE Systems The Coca-Cola Company

#### FIRST Championship Sponsor

The Boeing Company FIRST Shipping Sponsor FedEx Corporation

FIRST Machine Shop & Satellite Broadcast Sponsor NASA

FIRST Safety Partner Underwriters Laboratories Inc.

FIRST Judges Room & Dinner Sponsor Association for Laboratory Automation

#### FIRST Event Sponsor Gooale

Rolls Rovce

FIRST Scholarship Row Sponsor Georgia Institute of Technology FIRST Robotics Conference Sponsors Central Intelligence Agency

Worcester Polytechnic Institute

#### 2009 FIRST Scholarship Providers

Adelphi University

American Petroleum Institute - Delta Chapter Arizona State University ASME - ASME Auxiliarv BAE Systems Boston Universitv Bradley University Bucknell Universitv California State University, Los Angeles/ Boeing CalPoly San Luis Obispo/BAE Systems Capitol College Carnegie Mellon University/Boeing Case Western Reserve University City College of New York, CUNY Clarkson University **College for Creative Studies** College of Southern Maryland Colorado State University Colorado Technical University - Denver Daniel Webster College **DePaul University** DeVry University DigiPen Institute of Technology Drexel University Eastern Michigan University Embry-Riddle Aeronautical University Fabricators & Manufacturers Association Foundation Fairleigh Dickinson University Ferris State University Florida A&M University/Boeing Florida Institute of Technology Fluid Power Educational Foundation Georgia Institute of Technology Grand Valley State University Hampshire College Hofstra University Idaho State University Illinois Institute of Technology International Fluid Power Society ITT Technical Institute Johnson & Wales University Kansas State University Kettering University Lake Superior State University Lawrence Technological University Lindenwood University Marguette University Massachusetts Institute of Technology (MIT) Metropolitan Community College Milwaukee School of Engineering Missouri University of Science and Technology Molloy College Montclair State University New Hampshire Technical Institute

New Jersey Institute of Technology New Mexico State University/Boeing The New School Norfolk State University Northeastern University Northwestern University Ohio State University Olin College of Engineering Oregon Institute of Technology Oregon State University Pace University Penn State/BAE Systems Pennsylvania College of Technology Phil Clancy Memorial Scholarship Plymouth State University Polytechnic University Purdue University/BAE Systems Ravtheon Company Rensselaer Polytechnic Institute/BAE Systems Rochester Institute of Technology Schoolcraft College Seattle Pacific University SME Education Foundation Society of Petroleum Engineers - Delta Section Society of Women Engineers - Houston Area Society of Women Engineers -Space Coast Section Southern California Regional Robotics Forum (SCRRF) Spring Arbor University Stevens Institute of Technology Sweet Briar College Temple University Teradata Corporation **Tulane University** University of Arizona/BAE Systems University of Arkansas-Little Rock University of California-Davis University of Delaware University of Denver University of Hartford University of Hawaii at Manoa/BAE Systems University of Illinois at Chicago University of Kansas University of Maryland/BAE Systems University of Massachusetts Lowell University of Michigan/Delphi University of Minnesota/PTC University of Missouri University of Nebraska-Lincoln University of Nevada, Las Vegas University of New Hampshire/BAE Systems University of Rochester University of South Carolina University of South Florida University of Southern California University of Texas - Austin

University of Toronto University of Washington/Boeing University of Waterloo University of Wisconsin-Madison Vermont Technical College Virginia Commonwealth University Virginia Tech/BAE Systems Washington State University Washington University in St. Louis/The Boeing Company Washtenaw Community College Wayne State University Westwood College William Paterson University Worcester Polytechnic Institute 2008 FIRST LEGO LEAGUE SPONSORS

FLL Founding Partner The LEGO Group FLL Official Suppliers

3M LEGO Systems A/S

#### FLL Sponsors

National Instruments Corporation Rockwell Automation, Inc. Rockwell Collins, Inc. Vestas Wind Systems A/S

#### 2008 FIRST LEGO LEAGUE

HOST ORGANIZATIONS AND CHAMPIONSHIP **TOURNAMENT SPONORS** 

#### Australia PRIME FLL

Modern Teaching Aids (MTA) Moore Educational

#### Austria

HANDS on TECHNOLOGY e.V. mellowmessage Motorola MPDV National Instruments SAP Vision Components

#### Belgium

Stichting Techniekpromotie ASML Assembleon BOM Bosch Rexroth BrainCenter Frencken Group IRM The Mathworks Philips SenterNovem IOP University of Technology Eindhoven University of Utrecht Vision Dynamics

#### Brazil

EDAcom TECHNOLOGIA

#### Canada

Alberta Edmonton, Alberta Aecon

#### Association of Professional Engineers, Geologists and Geophysicists of Alberta Association of Science and Engineering Technology Professionals of Alberta Event Pro Planner Northern Alberta Institute of Technology Spectrum Nasco Educational Supplies Ltd Waiward Steel Fabricators Ltd. Western Achrib

#### British Columbia Vancouver, British Columbia

**BC Original Minds Association** British Columbia Institute of Technology, Burnaby Simon Fraser University, Surrey TELUS

#### Newfoundland St. Mary's, Newfoundland & Labrador

INTRD (Innovation Trade and Rural Development), Government of Newfoundland and Labrador IPEX. International Inc. Memorial University Faculty of Engineering and Applied Science Newfoundland Science Centre Verafin Software Inc.

#### Nova Scotia Wolfville, Nova Scotia

Acadia University Blomidon Inn EastLink EastPoint Engineering Limited eLab, Inc. IMP Group Keane Michelin Nova Scotia Business, Inc. Nova Scotia Department of Education Nova Scotia Economic Development Nova Scotia Power NSCC RIM

#### Ontario Edwards, Ontario

3M Canada Aramark Canada I td Attridge Transportation Inc The Burgess Family Children's Technology Workshop FIRST Robotics Canada GM of Canada

IFFF

Faroe Islands FIRST Scandinavia

Montclaire NSERC Our Kids Publications Quaker S.M. Blair Foundation SMLS Parent Association Spectrum Nasco Educational Supplies Ltd Sun Rich St. Mildred's-Lightbourn School Tim Horton's

#### Chile

Fundación Chile Adexus Edubrick Educarchile El Mercurio Fundación Mustakis IBM La Tercera Motorola Motorola Foundation Nacap SAP Siemens Sodimac Universidad Catolica Universidad de Magallanes

#### China

SFMIA Limited

#### Colombia

Fundación Global AC&T Cámara de Comercio de Bogotá Municipio de Sopó, Cundinamarca

#### **Czech Republic**

HANDS on TECHNOLOGY e.V. mellowmessage Motorola SAP Vision Components

#### Denmark

FIRST Scandinavia ConocoPhilips JLFondet Mærsk Oil SKS Sony Europe SpareBank StatoilHydro Tekna

#### Eavpt

The Institute of Electrical and Electronics Engineers (IEEE), GOLD Egypt section TechnoKids

ConocoPhilips JLFondet Mærsk Oil SKS Sony Europe SpareBank

StatoilHydro Tekna France Planète Sciences Altran Farnell FING IBM MDP

> Safran Syntec Informatique Yuasa Germany

HANDS on TECHNOLOGY e.V. mellowmessage Motorola MPDV National Instruments SAP Vision Components

#### Greenland

FIRST Scandinavia ASML ConocoPhilips JLFondet Mærsk Oil SKS Sony Europe SpareBank StatoilHvdro Tekna

#### Haiti

FLL Haiti CCIPN Caribintair Innocap s.a. La Fondation pour l'éducation et le développement d'Haïti (FEDUDEVH) Lakav Marie

Symbiosis Foundation

#### Hong Kong

SEMIA Limited

Hungary HANDS on TECHNOLOGY e.V. mellowmessage Motorola MPDV National Instruments SAP Vision Components

#### Iceland

FIRST LEGO League á Íslandi Háskoli Islands Krumma Gull Marel Food Systems Nora Tækniskólinn University of Iceland

#### Ireland

First Hand Technology Limited RP Ford Microsoft Rapid Communications

#### Israel

FIRST Israel **Applied Materials** General Motors Chevrolet Intelitek The Kahn Foundation (R.A.) National Instruments Rashi Foundation Technion Josh Weston A, ADP

#### Japan

FIRST Japan CREFUS Eikoh Learning Systems Zenkyoken

#### Jordan

National Educational Center for Robotics King Abdullah II Design and Development Bureau King Abdullah II Fund for Development King Hussein Foundation MOE Jordan

#### Lithuania

Lietuvos "Minties Odiseios" Asociaciia

#### Malavsia

Sasbadi Sdu Bhd Kementerian Pelaiaran Malavsia Pusat Sains Negara MOSTI

#### Mexico

Explora, descubre y crea, A.C. American School Foundation, A.C. Canieti Edacom, S.A. de C.V. Herramientas Inteligentes, S.A. de C.V. ITAM - Instituto Tecnológico Autónomo de México Instituto Tecnológico y de Estudios Superiores de Monterrey Papalote Museo del Niño SAP México, S.A. de C.V.



FIRST is all about educational opportunities. In 2009, all FIRST Robotics Competition team members were eligible for over 630 scholarship opportunities, valued at more than \$9.8 million. FIRST Tech Challenge students were eligible for over \$7.3 million of these scholarship funds.

The majority of *FIRST* scholarships are provided by colleges and universities for enrollment at their campuses. The remainder are provided by corporations and professional associations and are awarded for use at any school. Listed in this 2009 report (on page 18) are 130 FIRST Scholarship Providers, 26 of whom are new this year.

Some FIRST scholarships are awarded for special majors such as engineering, math, science, computer science, or technology. Others can be used for any course of study. The values of scholarships vary from full tuition to under \$1,000. Most are renewable annually if the student maintains an acceptable academic average.

# G ()

The Mathworks Philips SenterNovem IOP Vision Dynamics Norway FIRST Scandinavia ConocoPhilips JLFondet Mærsk Oil Norwegian Ministry of Education Norwegian Ministry of Research SKS Sony Europe SpareBank StatoilHydro

Netherlands

Assembleon

Bosch Rexroth

Frencken Group

BrainCenter

ASML

BOM

IBM

Stichting Techniekpromotie

### Tekna

Peru Asociacion Robotica v Tecnologia del Peru ARPL Peru BB Tecnología Industrial Colegio Franklin Delano Roosevelt Deltron Siemens Siena Group SAC

#### Poland

HANDS on TECHNOLOGY e.V. mellowmessage Motorola MPDV National Instruments SAP Vision Components

#### Portugal

Evoluir21 - Associação para o Desenvolvimento de Competências em Ciência, Tecnologia e Robótica Arabot Hi-Fi, Material Electrónico e Didáctico, Lda Caltec

#### Faculdade de Ciências da Universidade de Lisboa

#### Saudi Arabia

National Talents Training Center Aseer Scientific Club **British International Schools** Dar Al Fikr Schools Manarat Al Sharkiva Schools Royal Commission Community Service Club in Jubail

#### Singapore

Heartware Network EPSON ITE College Central LEE Foundation Manyang Polytechnic Maybank Microsoft Nothacker Sakae Sushi SMBT Slovakia

HANDS on TECHNOLOGY e.V. mellowmessage Motorola MPDV National Instruments SΔP Vision Components

#### South Africa

Tshwane University of Technology F'SATIE Hands-On-Technologies SΔP

#### South Korea

Advanced Learning Co. Ltd. ICIRA

#### Spain

Fundació Scientia Cein Citi Lab GMV Innovation Solution La Salle Parque Cientifico Y Tecnologico

#### Sweden

FIRST Scandinavia ConocoPhilips JLFondet Mærsk Oil SKS Sony Europe SpareBank StatoilHvdro Tekna

#### Switzerland

HANDS on TECHNOLOGY e.V. mellowmessage Motorola SΔP Vision Components Taiwan

#### K.Kinadom, Inc.

Turkey Smartkids Creative Children's Association Mimar Sinan Fine Arts University

#### United Kinadom

First Hand Technology Limited RP Ford Microsoft Rapid United States

#### Adventist Robotics League Berrien Springs, MI

North American Division Office of Education Southern University Walla Walla University

#### Alabama Huntsville, AL

Clark Wood Associates FRC Team #442 Lee High School Rocket City Robotics Leengineers Heritage Elementary School Lee High School Scientific-Atlanta

#### Alaska Anchorage, AK

Alaska Robotics Education Association Anchorage School District RP GCI Juneau Economic Development Council Springboard University of Alaska, Anchorage School of Engineering

#### Alaska Fairbanks, AK

Alaska Robotics Education Association RP

Fairbanks North Star Borough School District Juneau Economic Development Council Springboard University of Alaska, Fairbanks

#### Arizona Phoenix, AZ

Audio Video Resources Falcon Robotics, FRC Team 842 LEGO retail store, Chandler The Tooker Family Foundation

#### Arkansas Mountain Home, AR

**Baxter Credit Union** Baxter Healthcare Canteen Carter's Jewel Chest Ellison Electric Inc. Harp's Market Infodash McDonalds Mountain Home Public Schools Mountain Valley Spring Water Pepsi Cola Bottling Company



Science and Technology Group Town and Country Foods Wal-Mart

#### California - Los Angeles Manhattan Beach, CA

Anita L. Nelson, M.D. Boys and Girls Club of Camarillo Frank Kenny Real Estate Team, Keller Williams Realty Girl Scouts - Mt. Wilson Vista Council Glendale Unified School District LEGOLAND® California Manhattan Beach Unified School District Mr. B's Bricks Pleasant Valley Education Foundation Rockwell Collins, Inc. Six Flags<sup>®</sup> Magic Mountain Southern California Regional Robotics Forum Teradata Corporation on behalf of Mr. Jerry McGlynn

#### California - Central Clovis, CA

American Tees California Imaging Institute Clovis Unified School District Doc Buchanan High School FIRST Robotics Competition Team Educational Employees Credit Union Fresno State College of Engineering Home Depot Pelco Precision Plastics RetroBill.com Society of Hispanic Professional Engineers Fresno Chapter

California - Northern San Jose, CA Arrow Packaging Girl Scouts of Northern California Google Inc. Palo Alto Research Center SAP Labs

#### California- Southern Carlsbad, CA

LEGOLAND® California Colorado

#### Denver, CO

Agilent Technologies, Inc. Booz Allen Hamilton Computer Explorers Excel Energy University of Colorado Woodward Governo

#### Connecticut New Britain, CT

Central Connecticut State University, School of Engineering and Technology Connecticut Science Center Connecticut State Department of Education Dominion Millstone Power Station LEGO Systems Inc. Northeast Utilities

#### Delaware Newark. DE

Brandywine Hundred Rotary The Chrysler Foundation Delmarva Power Drexel University DuPont General Motors Corporation Hy-Point Farms

#### Progressive Software Computing Inc. Rohm & Haas Company Rowan University Society of Women Engineers University of Delaware W.L. Gore & Associates, Inc.

#### Florida Melbourne, FL

FIT IEEE Chapter The Pink Team Rockwell Collins, Inc. Society of Women Engineers — Space Coast Chapter Walt Disney World Design & Engineering www.trvrunninakids.com

## Georgia Atlanta, GA

Hewlett-Packard Development Company, L.F Netherlands Community American Trust School of Electrical and Computer Engineering at Georgia Tech

Shell Oil Women in Electrical and Computer Engineering Women in Engineering

#### Hawaii Honolulu, HI

Alexander and Baldwin Charitable Foundation City & County of Honolulu Hawaii Strategic Development Corporation/ DBEDT Hawaiian Electric Industries Charitable Foundation Hoku Scientific Honolulu Community College Construction Academy isisHawaii McKinley High School **ROC** - Robotics Organizing Committee State of Hawaii Department of Education Tesoro Corporation – Hawaii University of Hawaii – College of Engineering Women in Technology/MEDB

#### Idaho Moscow, ID

Idaho 4-H Endowment Idaho National Laboratory Idaho Space Grant Consortium LCF Enterprises University of Idaho, College of Agriculture & Life Sciences

University of Idaho, College of Engineering

#### Illinois Arlington Heights, IL

Caterpillar Five Star Audio Visual Motorola, Inc. Sonoscan, Inc.

Indiana

lowa

Ames, IA

Fort Wayne, IN

ITT Corporation

**Cotton Family Foundation** 

Mark & Carolyn Guidry

Apogee Interactive, Inc.

Applied Physics Institute

Cyber Defense Laboratory

Carol Martin Gatton Academy of

Electronic Warfare Associates, Inc.

Manufacturing North America

Western Kentucky University (WKU)

Department of Architectural and

Department of Geology and Geography

Physics and Astronomy Department

Provost's Initiative for Excellence

Manufacturing Sciences

Ogden College of Science and

Toyota Motor Engineering and

Chemistry Department

College of Education

Engineering

College of Engineering

Center for Gifted Studies

Mathematics and Science in Kentucky

Rockwell Collins, Inc.

Loren Zachary

Bowling Green, KY

Insight Cable

NBC station

Kentucky

K. Engel K-12 Engineering Endowment

#### Louisiana Metairie, LA

API - American Petroleum Institute – Delta Chapter Baker Hughes Best Tech Computer Services Council of Petroleum Accountants Societies of New Orleans Desk and Derrick Clubs FIRST The Bruce J. Heim Foundation Jefferson Parish School Board John C. Stennis Space Center Kentwood Water Michoud New Orleans Geological Society OCS BBS (Offshore Oil Scouts Association **Orleans Parish Schools** PIPE (Petroleum Industry Promoting Education) Professional Landmen's Association of New Orleans The Schreier-Edisen Foundation Shell Exploration and Production Company Society of Independent Professional Earth Scientists - New Orleans Chapter

Society of Petroleum Engineers -Delta Section Society of Petrophysicists & Well Log Analysts The Faculty, Staff and Students of J.D. Meisler Middle School The Schreier-Edisen Foundation **Tulane University** The University of New Orleans

#### Maina Castine and Standish, ME

Bonny Eagle High School, MSAD #6 **Fisher Charitable Foundation** Libra Foundation Maine Maritime Academy, Castine

#### Maryland Baltimore. MD

Lockheed Martin Corporation Northrop Grumman Corporation

Massachusetts - Eastern Quincy, MA Proctor & Gamble/Gillette Quincy Public School System

Massachusetts - Westerr Worcester, MA

Raytheon Company Worcester Polytechnic Institute

Michigan - Flint Flint MI

Delphi Automotive FANUC Robotics Flint Area Convention and Visitors Bureau **General Motors Corporation Genesee County Board of Commissioners** Genesee Regional Chamber of Commerce Rowe Professional Engineering Services Company

Michigan - Novi Novi, MI

FANUC Robotics **General Motors Corporation** 

Minnesota University of Minnesota, St. Paul Campus

**3M** Foundation ADC Foundation Adventium Labs Best Buy Children's Foundation Cargill Foundation **Ecolab** Foundation HB Fuller Foundation Honeywell International, Inc. Lockheed Martin Corporation The Medtronic Foundation The Pentair Foundation Private donors Seagate Corporation Stratasys, Inc. The Toro Foundation

National Instruments — Austin. Texas 2009 Founder's Award Recipient

Dr. James Truchard. President, CEO, and Cofounder, National Instruments

At every FIRST Championship, Dean Kamen presents the Founder's Award to a company, individual, or entity that does something extraordinary to help FIRST grow its programs and further its mission.

With the goal of creating a school-to-career pipeline through which young people are inspired to explore opportunities in science, technology, engineering, and mathematics (STEM), National Instruments (NI) shares FIRST's philosophy that today's culture can be positively transformed by inspiring young people, their schools, and their communities to appreciate the need for STEM education in 21st-century education.

NI has generously supported FIRST since 1998, contributing millions through annual in-kind donations, resources, technology, training, and employee volunteerism.

NI joined with The LEGO Group in 1998 to collaborate on the programming software for the original LEGO MINDSTORMS product. In 2006, the FIRST LEGO League adopted NI's MINDSTORMS NXT software. In 2009, FRC teams used the NI CompactRIO controller powered by NI's LabVIEW graphical system design software. Through this collaboration, an estimated 200,000 FIRST participants gain hands-on robotics software experience with technology widely used by professional engineers.

"We must inspire today's students to be tomorrows innovators," says Ray Almgren, Vice President of Academic Relations at NI. "NI chooses to invest in FIRST because we know the programs offer dynamic, hands-on experience with a proven ability to spark student interest in engineering and science."

Under the leadership of Dr. James Truchard. President, CEO, and Cofounder. NI (pictured above) has set a wonderful example of what companies dedicated to furthering U.S. education can do. A tireless member of the FIRST Executive Advisory Board, NI supports FIRST with the time and efforts of their staff resources throughout the year, and serves as a role model for all of corporate America, committed to inspiring creativity and innovation in our schools and helping to shape the future of education.

Prior recipients include: BAE Systems, The LEGO Group, FedEx, NASA, Honeywell, Johnson & Johnson, Walt Disney Co., United Technologies Corporation, and General Motors.

**7 NATIONAL** INSTRUMENTS



#### University of Minnesota Institute Xcel Energy

#### Mississippi Gautier, MS

Cisco Systems: 21st Century Schools Program Global Financial Aid Services, Inc. Hancock Medical Center Jacobs Technology - Jacobs FOSC Group Mississippi Gulf Coast Community College Mississippi Power Education Foundation Mississippi State University -Bagley College of Engineering

NASA Stennis Space Center

#### Missouri – St. Louis St. Louis, MO

Kathie Reuter Mulligan Printing St. Louis Community College Florissant Valley Campus The Society of American Military Engineers

#### Missouri – Kansas City Liberty High School, Liberty, MO

- Ewing Marion Kauffman Foundation Liberty School District
- Metropolitan Community College
- University of Missouri Kansas City, School of Computing & Engineering, Computer Science Electrical Engineering Department

#### Montana Bozeman, Mi

College of Engineering, Montana State University Montana Space Grant Consortium QWEST Foundation Technical support from RightNow Technologies Zoot Enterprises, Inc.

#### Nevada Las Vegas, NV Albertsons

Albertsons Bechtel SAIC Company, LLC Cimarron-Memorial High School "High Rollers Team 987" FIRST NV Las Vegas Color Graphics Snap Fitness

#### New Hampshire Nashua, NH

BAE Systems

#### New Jersey Flanders, NJ

County College of Morris Mount Olive Board of Education Sanofi-Aventis Siemens Diagnostics Products

#### New York - Albany Albany, NY

- General Electric Company New York State Energy Research & Development Authority New York State Foundation for Science, Technology & Innovation Rensselaer Polytechnic Institute Rensselaer Polytechnic Institute, Center for
- Future Energy Systems New York – Clarkson University Clarkson University
- Clarkson University Office of Educational Partnerships New York State Saint Lawrence — Lewis BOCES
- New York Finger Lakes Rochester NY
- Bausch and Lomb Corporation

#### IBN

LaBella Associates, PC Postler & Jaeckle Corporation Rochester Gas and Electric University of Rochester Office of Admissions School of Engineering and Applied Sciences Xerox Corporation

#### New York – Long Island Middle Island, NY

Alken Industries, Inc. Biscotti, Toback & Company, PC Brookhaven National Laboratory The Event Pros Group First Trade Union Bank Richard & Randi Gertler Hauppauge High School Hewlett-Packard Matching Gift 🔶 Lenetix Medical Screening Lab, Inc. Long Island FLL Planning Committee Members Longwood Central School District New York State Technology Education Association Sandata Technologies, Inc. Sideboard Computers Jeffrev Stern Syosset Chess Mates, Inc Thaver & Gertlerm, LLP

#### New York – Lower Hudson Pleasantville, NY

Pace University

Con Edison

Credit-Suisse

#### New York – Mid Hudson Poughkeepsie, NY

Adva Optical Networks Arlington Central School District (Union Vale Middle School) BrickKids Central Hudson (utility company) Dutchess Community College **Dutchess County 4H Cornell Cooperative** Extension Fala Technologies Girl Scouts Heart of the Hudson IBM Corporation International FIRST LEGO League Mahopac Middle School Marist College Mid-Hudson Association of Computing Machinery (ACM) Mid-Hudson Institute of Electrical & Electronics Engineers (IEEE) Splashdown Beach Wappingers Central School District (Van Wyck Jr. High School) New York – New York City New York NY

David L. Klein, Jr. Foundation Netherlands American Community Trust New Jersey Institute of Technology Polytechnic Institute of NYU Verizon Vision Education and Media

#### North Carolina Greensboro, NC

Applied Materials, Inc. Bryan Foundation Gateway University Research Park NASA Philip Morris USA United Technologies Corporation

#### North Dakota Grand Forks, ND

Advanced Engineering & Environmental Services, Inc. Alion Science and Technology Basin Electric Power Cooperative, Inc. Bobcat Company Cargill Dakota Science Center HB Sound & Light, Inc. Minnkota Power Cooperative, Inc. Otter Tail Power Cooperative, Inc. Otter Tail Power Company Ralph Engelstad Arena, Inc. Simonson's Lumber and Hardware University of North Dakota University of North Dakota University of North Dakota, School of Engineering and Mines

#### Ohio Dayton, OH

American Society of Mechanical Engineers, Dayton Section Battelle - Dayton Operations Ohio Educational Outreach Foundation Wright-Patterson Air Force Base Educational Outreach Wright State University

#### Oregon Beaverton, OR

AeA Bonneville Power Administration The Catlin Gabel School ESCO Corporation FEI Company IBM Intel Oregon June & Bill Lattin McMenamins, Inc. Mentor Graphics Foundation Fred Mever Oregon Nanoscience & Microtechnology Institute Oregon University System Pacific Power Foundation PH Tech Portland Community Media

#### RadiSys Rockwell Collins, Inc. Tektronix, Inc.

Vernier Software and Technology Pennsylvania - Western

Pittsburgh, PA Robomatter, Inc.

#### Rhode Island Bristol Bl

Institute of Electrical & Electronics Engineers (IEEE) - Providence Section Lush Group, Inc. Rhode Island School of the Future Roger Williams University Time to Design

#### South Carolina Clemson, SC

Clemson University South Carolina Department of Education

#### Tennessee Cookeville, TN

Tennessee Society of Professional Engineers Tennessee Tech University UT-Battelle

#### Texas-West Canyon, TX

Amarillo College Amarillo National Bank Bell Helicopter Textron B&W Pantex Don Harrington Discovery Center Puff Niegoes Helen Piehl Stanley and Geneva Schaeffer Texas Alliance for Minorities in Engineering Amarillo Chapter Texas Tech University West Texas A&M University Xcel Energy Foundation

#### Texas-Central Leander, TX

3M Cockrell School of Engineering, The University of Texas at Austin HEB Media Event Concepts National Instruments Silicon Laboratories Skillpoint Alliance SpawGlass

#### Texas-Houston Houston, TX

American Robotics Academy Bass Computers Inc. Boy Scouts of America, Bay Area Council Girl Scouts of America, San Jacinto Council Houston Weather Research Center Insight Technical Solutions

#### Jacobs Services NASA Johnson Space Center Penn State University Raptor Technologies Technical Writing Today Technip International University of Houston, College of Young Audiences of Houston

#### Texas-North Dallas, TX

ExxonMobil Greater Texas Foundation Lockheed Martin Museum of Nature and Science University of Texas at Dallas

#### Virginia/DC Harrison Virginia

Dominion General Dynamics Harrisonburg Downtown Tourism Luna Innovations James Madison University College of Education College of Integrated Science Technology Rockwell Collins Virginia Public Television (WVPT)

#### Washington Bellevue, WA

K & L Gates MAQ Software Microsoft Corporation

#### West Virginia Wheeling, WV

American Electric Power LEGO Education Private donors West Virginia Space Grant Conso Wheeling Jesuit University

#### Wisconsin Mukwonago, WI

Discovery World Fox Valley Technical College General Electric Company J.J. Keller & Associates, Inc. Plexus Corporation Rockwell Automation, Inc. Xcel Energy

#### Wyoming Casper, WY

Casper Area Convention and Visit Casper College Central Wyoming Board of Cooper Education Services Natrona County Joint Powers Recreation Board Natrona County School District #1

	2008 FIRST TECH CHALLENGE CAD AND COLLABORATION SPONSOR Parametric Technology Corporation (PTC)
	2008 FIRST TECH CHALLENGE EVENT SPONSORS
Technology	Alaska Championship Tournament Fairbanks, AK
	University of Alaska Fairbanks
	Arizona Championship Tournament Phoenix, AZ
	Carl Hayden Community High School Falcon Robotics
	British Columbia Provincial Championship Tournament Burnby, British Columbia, Canada
	British Columbia Institute of Technology British Columbia Original Minds Association
	California, Los Angeles Championship Tournament Northridge, CA
	American Society of Mechanical Engineers California State University, Northridge
	California, San Diego Championship Tournament San Diego, CA
e and	Madison High School
	Northern California Championship Tournament Mountain View, CA
	Computer History Museum Girls Scouts of Northern California Google Inc.
	LSI Corporation
	Playing@Learning
	Sun Microsystems Laboratories
	Colorado Championship Tournament Golden, CO
	Colorado School of Mines MindSports
ortium	Connecticut Championship Tournament West Hartford, CT
	PDS Engineering & Construction, Inc. Practical Robotic Services, LLC
	Delaware - Diamond State Championship Tournament Newark, DE
	Agilent Technologies, Inc. The Center for Collaborative Research & Education
	Ciba-Geigy Corporation
	DuPont
	Frontline Test Equipment, Inc.
tors Bureau	Florida Championship Tournament Tampa, FL
	Electronic Arts Tiburon
erative	Raytheon Network Centric Systems University of South Florida
1	Georgia Championship Tournament Marietta, GA
1	COACH Robotics, Ltd.

2008 FIRST TECH CHALLENGE CAD

Southern Polytechnic State University Windburn Productions YES! Youth Engaged in Science

#### Idaho Championship Tournament Moscow, ID

Idaho National Laboratory LCF Enterprises NASA Idaho Space Grant Consortium Potlatch Corporation University of Idaho, College of Agricultural and Life Sciences University of Idaho, College of Education University of Idaho, College of Engineering

#### Illinois Championship Tournament Chicago, IL

Illinois Institute of Technology

#### Iowa Championship Tournament University of Iowa Rockwell Collins, Inc.

The University of Iowa

#### Maryland Championship Tournament LaPlata, MD

BAE Systems, Inc. Charles County Economic Development Commission Charles County Technology Council College of Southern Maryland College of Southern Maryland Foundation Dominon Energetics Technology Center Maryland Technology Development Corporation Northrop Grumman Corporation The Patuxent Partnership TIME Center Wyle

#### Massachusetts Championship Tournament Palmer, MA

Auburn Dermatology & Laser Center Dr. Gerald L. Paist Palmer Rotary Club Pathfinder Regional Vocational Technical High School Michael Powers United States Air Force

#### Mexico National Championship Tournament Mexico City, D. E. Mexico

Instituto Tecnológico y de Estudios Superiores de Monterrey

## Minnesota Snow Drift Championship Tournament Savage, MN

Parametric Technology Corporation Prior Lake Robotics Team KING TeC. Prior Lake-Savage Area Schools Community Education Services

Missouri Championship Tournament St. Louis, MO

ABNA Engineering Inc.

Mr. & Mrs. Harry Baker James G. & Catherine Berges Donor Advised Fund at the University of Notre Dame The Doerr Family **DRS** Technologies Emerson Employees Community Fund of The Boeing Company Mr. Richard C. D. Fleming & Ms. Sarah B. Smith Innoventor, Inc. James Mulligan Printing Company Dr. & Mrs. Ernest G. Jaworski Lindenwood University Carol B. Loeb MasterCard International Inc. Missouri University of Science and Technoloav Gordon Robinson The Saigh Foundation The Seeser Family Fund The Society of American Military Engineers Society of Manufacturing Engineers,

St. Louis Chapter 17 Spoehrer Family Charitable Trust St. Louis Community College

#### Montana Championship Tournamen Bozeman, MT

Montana Space Grant Consortium Montana State University QWEST Foundation RightNow Technologies, Inc. Zoot Enterprises

#### The Netherlands Championship Tournament Den Haag, NE, Netherlands

FESTO B.V. Fonds 1818 HCO IBM Netherlands B.V. KIVI NIRIA National Instruments Corporation NFGD audiovisueel OTC Haaglanden SOB Den Haag Centrum T&M Solutions

#### Nevada Championship Tournament Las Vegas, NV

Bechtel SAIC Company, LLC Palo Verde High School and PVHS Science Club

#### New Jersey Garden State Rumble Championship Tournament Ewing, NJ

The College of New Jersey New Jersey Technology Education Association Public Service Enterprise Group



Dean Kamen is an inventor, entrepreneur, and tireless advocate for science and technology. His passion and determination to help young people discover the excitement and rewards of science and technology are the cornerstones of *FIRST*.

*FIRST* recognized 11 organizations as Strategic Partners in 2009. These companies help realize Dean's vision.

#### BAE Systems

The Boeing Company DEKA Research and Development FedEx General Motors Johnson & Johnson The Motorola Foundation NASA National Instruments Rockwell Automation Rockwell Collins

Strategic Sponsors provide a significant annual contribution, align their contributions with *FIRST* priorities, and make multi-year commitments that are national in scope.

#### Northern New York Championship Tournament Potsdam, NY

Clarkson University

5

()

Saint Lawrence-Lewis BOCES

#### New York City Championship Tournament New York, NY

Consolidated Edison, Inc Credit Suisse (USA), Inc. Polytechnic Institute of NYU Verizon Communications

#### North Carolina Championship Tournament Greensboro, NC

Cargill, Incorporated The Cemala Foundation Dell, Inc. North Carolina A&T State University Piedmont Triad Partnership

#### Ohio Championship Tournament Cincinnati, OH

#### Duke Enerav

EAC Product Development Solutions Great Oaks Institute of Technology and Career Development University of Cincinnati

#### Ontario Provincial Championship Tournament Toronto, Ontario, Canada

**Ontario Science Centre** Jalvnn Bennett NSERC

#### Oregon Championship Tournament Hillsboro, OR

Bonneville Power Administration Electro Scientific Industries, Inc. ESCO Corporation IBM William & June Lattin McMenamins Mentor Graphics Corporation Fred Mever Oregon Nanoscience and Microtechnologies Institute Oregon University System Pacific Power Foundation Performance Health Technology, Ltd. PGE Foundation **RadiSvs** Corporation TechAmerica Tektronix, Inc Vernier Software & Technology

#### Pennsylvania Championship Tournament Weatherly, PA

#### Weatherly Area School Department

Rhode Island Championship Tournament Warwick, RI New England Institute of Technology The Tech Collective Verizon Foundation

#### South Carolina Championship Tournament Orangeburg, SC

James E. Clyburn Transportation Center South Carolina State University

#### Tennessee Championship Tournament Cookeville, TN

All American Storage Filter-Fab Corporation Filter-Mart Corporation

#### Texas - Southwest Championship Tournament Arlington, TX

The University of Texas at Arlington

#### Texas - Alamo Championship Tournament San Antonio, TX

Akimeka, L.L.C. Greater Texas Foundation Kelly Aviation Center, L.P. Texas Workforce Commission Valero Energy Corporation Vista College

#### Virginia Championship Tournament Charlottesville, VA

BAE Systems, Inc. Dominion Digital, Inc. Dominion Resources Inc. Knockawe Woodworking Sperry Marine Northrop Grumman University of Virginia University of Virginia School of Engineering & Applied Science Virginia Commonwealth University School of Engineering WVPT - Virginia's Public Television

#### Washington Championship Tournament Des Moines, WA

Battelle Memorial Institute Digipen Institute of Technology Eastern Washington University K&L Gates LLP MAO Software Microsoft Corporation

#### Wisconsin Championship Tournament Appleton, WI

#### Innovationedge, LLC 2009 FIRST ROBOTICS COMPETITION KICKOFF SPONSOF

Booz / Allen / Hamilton NASA Parametric Technology Corporation (PTC) Worcester Polytechnic University 2009 FIRST ROBOTICS COMPETITION

## SUPPLIERS

#### Crown Suppliers

Altium Autodesk, Inc. DEKA Research & Development Corporation ebm-papst Inc

#### **Gates** Corporation Luminary Micro National Instruments Corporation Parametric Technology Corporation (PTC) **Rockwell Automation** Wind River

#### **Diamond Suppliers**

Analog Devices, Inc AndvMark Bimba Manufacturing Company CollabNet, Inc. Diversified Systems, Inc. FedEx Corporation Gardner Denver Thomas Innovation First, Inc MK Battery Parker Hannifin Corporation TTI, Inc.

AutomationDirect.com Axis Communications BAE Systems Delphi Packard Electrical/Electronic Architecture DENSO FCI-BURNDY® Products Festo Corporation Freescale Semiconductor Inc Grainger igus, Inc. Norgren Texas Instruments **Tvco Electronics Corporation US Digital Corporation** Wago Xilinx

#### Silver Suppliers

4FX Design BaneBots LLC Baver MaterialScience LLC CablesToGo CCL Industrial Motors, Ltd. Clippard Fabricators & Manufacturers Association. International Fisher-Price Fluid Power Education Foundation Freelin-Wade Company Globe Motors Idle Loop Software Design KERK Motion Products, Inc. Keyang Electric Machinery Co, Ltd Monnier, Inc. NASON The Robot MarketPlace Schumacher Electric Corporation Taigene Electric Machinery Co., Ltd.



Terminal Supply TigerDirect.com Triangle Mfg. Co. WIKA Instrument Corporation

#### Bronze Suppliers

Anderson Power Products® Calence/InsightNetworking Solutions Diamond Technologies Inc. Hitec RCD USA Hitechnic Honeywell International, Inc. HPE Automation, Inc. Kent Elastomer Products, Inc. Lifoam Mabuchi Motor Co., Ltd. Nvpro Pelham Plastics Sabic Scorpion Case Software Toolbox TICONA Vestmoore Warehousing

#### 2009 FIRST ROBOTICS COMPETITION REGIONAL SPONSORS

#### Arizona Regional Phoenix, AZ

Amtech Systems, Inc. Avnet Inc. **BAE Systems Land Armament** Craig and Barbara Barrett Honeywell Hometown Solutions Intel ITT Technical Institute, Tempe, AZ Melody Simoncia Microchip Technology Inc.

Microchip Technology Inc. Employees Osborn Meladon Steve and Maria Sanghi Southwest Industrial Rigging ST Microelectronics Valley of the Sun United Way (Microchip Employees) Wells Fargo

White Electronic Designs Wishes 'n Stitches Embroidery

BAE Systems Granite State Regional Manchester, NH BAE Systems

#### Bayou Regional New Orleans, LA

American Petroleum Institute - Delta Chapter American Society of Mechanical Engineers — New Orleans Anonymous Building Louisiana Science and Technology (BLaST) Crescent Bank and Trust Bruce J. Heim Foundation Infinity Engineering Consultants Intralox, LLC ITT Technical Institute - St. Rose Lockheed Martin Space Systems Motiva Enterprises NASA NASA Stennis Space Center Naval Oceanographic Office Northrop Grumman Shipbuilding Orleans Parish Schools Pailet, Meunier and LeBlanc, LLC Petroleum Industry Promoting Education (PIPF)

#### Society of Petroleum Engineers -Delta Chapter Textron Marine and Land Systems **Tulane University** University of New Orleans

#### Boilermaker Regiona West Lafayette, IN

AndyMark Arni's BAE Systems, Inc Caterpillar Foundation The Coca-Cola Company The Delphi Foundation Heavenly Ham Indiana Space Grant Consortium Indiana STEM Purdue College of Agriculture -Youth Programs Purdue Dept of Information Technology Purdue Dept of Mechanical Engineering Purdue School of Electrical Engineering Purdue University, Office of the Provost Purdue School of Organizational Leadership & Supervision Rolls-Rovce Snowbear West Lafavette High School

#### Boston Regional Boston, MA

Analogic Corporation Boston Museum of Science **Boston University** Draper Laboratory Fresh Tilled Soil iRobot The Mathworks, Inc.

"Our students can be their own economic stimulus packages by leveraging their skills into self-sustaining careers and help with the issues we face in the 21st century."

> Dr. Woodie Flowers FIRST Executive Advisory Board Chairman

#### MIT Lincoln Laboratory P&G Gillette Parametric Technology Corporation (PTC) Philips Color Kinetics **Richard & Susan Smith Family Foundation** Richard & Susan Smith John, Amy, Jennifer & James Berylson Robert & Dana Smith Brian & Debra Knez SolidWorks Corp. Textron Systems Worcester Polytechnic Institute (WPI)

Buckeye Regional

Angela M. McKenzie

Fairmount Minerals

Nordson Corporation

Paragon Tech, Inc

**Rockwell Automation** 

Sierra Lobo, Inc

Swagelok

**Ohio Aerospace Institute** 

Battelle Memorial Institute

**Cleveland State University** 

CSU / Wolstein Center (SMG)

Cuyahoga Community College

NASA Glenn Research Center

Ohio Space Grant Consortium

Parker Hannifin Corporation

Parametric Technology Corporation (PTC)

Cleveland, OH

AlphaPort

Battelle

Diebold

NorTech

Orval Morris

#### The Cleveland Indians The Timken Company/GNE 19

#### Chesapeake Regional Annapolis, MD

**BAE Systems** Booz / Allen / Hamilton Cal-Bay Systems **Capitol College** Eagle Alliance global glacéau vitaminwater & glacéau smartwater Hughes Lockheed Martin NASA NASA-Goddard Space Flight Center Ravtheon The Sylvan Laureate Education Foundation United States Naval Academy

#### Colorado Regiona Denver, CO

**Ball Corporation** Booz Allen Hamilton Inc. Club Workshop Colorado School of Mines Courtyard by Marriott, Cherry Creek Denver Museum of Nature and Science EnCana Oil & Gas IEEE Denver Section Intel Volunteer Grant Program Intercall Brent Klingforth Lockheed Martin Technetronic Solutions, Inc. United Launch Alliance Vectra Bank Colorado Venoco, Inc.

#### Connecticut Regional Hartford, CT

General Dynamics Electric Boat Northeast Utilities Foundation Pitney Bowes The Stanley Works United Technologies Corporation

#### Dallas Regional Dallas, TX

DeVry University - DFW Metro J. Paul Gravson Foundation Greater Texas Foundation **ITT Technical Institute** JCPenney and the JCPenney Afterschool Fund Lockheed Martin Missiles and Fire Control MSC Industrial Supply Co. Parametric Technology Corporation (PTC) Southwest Airlines, Co. Steve Weldon, Travelers Insurance Companies

## DC Regional Washington, DC

**BAE Systems** Booz / Allen / Hamilton DataNet Systems Corp. **District of Columbia Public Schools** global glacéau vitaminwater & glacéau smartwater Lockheed Martin Lockheed Martin Undersea Systems Microsoft Corporation NASA NASA-Goddard Space Flight Center The Netherlands American Community Trust, Inc Northrop Grumman Corporation Office of the Chief Technology Officer of the District of Columbia PhRMA (Pharmaceutical Research and Manufacturers Association) Raytheon

#### Finger Lakes Regional Rochester, NY

Bausch & Lomb Incorporated Cast Industries LLC County of Monroe Industrial Development Aaencv **Democrat & Chronicle** Eastman Kodak Company Harris Corporation, RF Communications Division IBM Global Technology Services (GTS) Monroe County Executive Maggie Brooks Monroe Muffler **Ortho-Clinical Diagnostics** William Pollock **Rochester Business Journal** Rochester Institute of Technology SWEET Sign Systems Xerox Corporation Ronald L. Zarrella

#### Florida Regional Orlando, FL

**BAE Systems** DeVrv University Orlando Florida High Tech Corridor Harris Corporation Kennedy Space Center, NASA Leftwich Consulting Engineering Lockheed Martin Missiles & Fire Control Motorola Foundation Northrop Grumman Integrated Systems Progress Energy **RINI** Technologies, Inc United Space Alliance University of Central Florida University of Florida University of South Florida

#### Greater Kansas City Regiona Kansas City, MO

Archer Technologies Baver HealthCare -Animal Health Division Black & Veatch Burns & McDonnell Engineering Butler Manufacturing DeVry University DST Systems, Inc. **Dunn Family Foundation** Ewing Marion Kauffman Foundation Garmin General Motors Fairfax Assembly Plant Honevwell FM&T MasterCard Corporation Metropolitan Community College MidWest CAD Midwest Research Institute MOREnet The Sprint Foundation University of Missouri Kansas City School of Computing and Engineering

#### Greater Toronto Regional

Mississauga, ON, Canada Bell Canada S.M. Blair Foundation Bombardier Aerospace Bruce Power Imperial Oil Foundation McMaster University MDA Space Missions Power Corporation Rockwell Automation TD Bank Financial Toronto Hvdro University of Toronto University of Waterloo Youth Science Canada

#### Hawaii Regional Honolulu HI

A & B Foundation Aloha Air Cargo BAE Systems Booz / Allen / Hamilton FedEx Hawaii Hawaii Air Cargo Hawaiian Dredging Construction Co. Inc. Hawaiian Electric Co. Inc. Honolulu Community College JN Group/Castaglione A Casauria Foundation Marriott International Matson Navigation Company NASA Queen's Medical Center United Laundry Services, Inc The University of Hawaii USA Funds WestPac International, Inc.





Aufzien Foundation **Bialkin Family Foundation** David & Marv Boies Muriel & Bert Brodsky Family Foundation Alfred & Jane Brody City of Tel Aviv Leon & Toby Cooperman James Dimon Irwin Dorros Mitzi & Warren Eisenberg Family Ericson Jeff Goldman Marc Goldman Goldman Sonnenfeldt Foundation Alfred G. Goldstein Jeff Goodman Paula & Jerry Gottesman Eugene & Emily Grant Foundation International Matex Jewish Communal Funds Kahn Family Foundation Dean Kamen 📕 Earle W. Kazis Frank Lautenberg Leumi Robotics Center at the Technion Robert J. Levenson Family Foundation M. G. International Consulting Bernie Marcus Foundation Sebastian "Mike" Martone Morris Offit Motorola Foundation Orange - Partner Communications Parametric Technology Corporation (PTC) Claudio & Penny Pincus



#### Las Vegas Regiona Las Vegas, NV

Albersons Amercian Pacific Corporation Bechtel SAIC Company, LLC Dr. Robert Mendenhall and Las Vegas Paving Corporation National Security Technologies, LLC Spectronix University of Las Vegas University of Las Vegas Office of the President

#### Lone Star Regional Houston, TX

Arc Specialties ASME International BAE Systems RP ConocoPhillins Carla Doyne ExxonMobil Foundation GE Energy Michael Goodwin

Greater Texas Foundation Jacobs Engineering Kellogg Brown & Root, LLC (KBR) Linn Enerav NASA Johnson Space Center Rockwell Fund, Inc. The Williams Foundation Williams Gas Pipeline

#### Los Angeles Regional Long Beach, CA

BAE Systems-Land and Armaments **Disney Worldwide Outreach-Imagineering** McLaughlin NASA-JPL Kenneth & Eileen Norris Foundation **Oppenheimer Family Foundation** Baadal Patel Jill & Stephen Petty Ravtheon Teradata Corporation USC, College of Engineering

#### Michigan FIRST Events

Amphenol Android Arialink Art Craft Display, Inc. ASME Autocam AVL Blarney Castle BlueWater Technologies Group Inc. Boathouse Restaurant **Booz Allen Hamilton Castaing Family Foundation** Catering by Kelly's The Chrysler Foundation City Animation Colonial Party Event Rental Cousin Jenny's Cuppa Joe Warehouse Lounge The Delphi Foundation **DTE Energy Foundation** Eastern Michigan University Fastenal Flexco / Clipper Belt Lacer Ford Motor Company Gorman's Home Furnishings and Interior Design Grand Valley State University GrandView Catering Haworth, Inc. Integrated Controls Inteva Products ITT Technical Institute JR Automation - JC Huizenga Kendall Electrical Kettering University Lacks Enterprises, Inc.

Lansing Community College Lois and Tauno Williams MCM Electric Meiier Foundation Michigan State University Michigan State University Department of Mechanical Engineering Michigan Technological University Morrison Foundation Musical Memories Parkway Communications Pensi Pioneer Construction Progressive AE PTC **Rockwell Automation Fund** Rotary Club of Traverse City S.R.V. Services Inc., Electrical Division SAE Detroit Section Search Plus International Sebastian Foundation Sound Environments Steelcase Sunbelt Rentals TARDEC Toyota Trov Foundation for Educational Excellence Troy School District Washtenaw Community College WWJ NewsRadio 950

#### Microsoft Seattle Regional Seattle, WA

DigiPen Institute of Technology Edelman Enterprises International ITT Technical Institute Microsoft Corporation Platt Electric TechAmerica

#### Midwest Regional Chicago, IL

Baxter International, Inc. Caterpillar Foundation Casey Cowell Elite Communications The Field Museum Frank Feraco Keith Fisher Jeffrey & Cidney Golman Wendy Gross Illinois Institute of Technology Inventables Kevth LS Research McDonalds Motorola Foundation OCA Ventures Ronald Raskin

T & C Schwartz Family Michael Seedman Howard Silverman Kenneth Sinko Anthony & Karen Sobel Sports Award David Sternberg University of Illinois-Chicago Jay Whipple Minnesota 10,000 Lakes Regional

## Minneapolis, MN

3M Corporation BAE Systems **Boston Scientific Corporation** The Medtronic Foundation Parametric Technology Corporation (PTC) University of Minnesota

#### Minnesota North Star Regional

Minneapolis, MN 3M Corporation BAE Systems **Boston Scientific Corporation** The Medtronic Foundation Parametric Technology Corporation (PTC) University of Minnesota

#### NASA / VCU Regional Richmond, VA BAE Systems

BluePrint Automation Booz / Allen / Hamilton CapTech Ventures Computer Resource Team **Crenshaw-Singleton Properties** DataNet Systems Corp Dominion Digital Dominion Power DuPont Spruance, Richmond ECPI College of Technology Flexicell Genworth Foundation global glacéau vitaminwater & glacéau smartwater Greater Richmond Technology Council Groot Family Foundation Jewett Machine Lockheed Martin Lockheed Martin Undersea Systems Micron Technology, Inc. NASA NASA-Goddard Space Flight Center The Nertherlands American Community Trust. Inc. Northrop Grumman Raytheon Richmond Joint Engineers' Council Sam's Club Science Museum of Virginia Showbest Fixtures Corp.

Sonic Tools, L.P. State Fair of Virginia Sweet Briar College SvCom Technologies Ukrop's Super Markets, Inc. Virginia Commonwealth University Virginia Council on Advanced Technology Skills (VCATS)

#### New Jersey Regional Trenton, NJ

**ADP** Foundation Automatic Data Processing, Inc. Bank of America Donald Bowers **Bristol-Myers Squibb Foundation Brother International Corporation** Jennifer Chalsty **DSI RF Systems** Victor Groisser Integra Foundation Johnson & Johnson Johnson & Johnson Family of Companies Lockheed Martin Corporation MetLife Foundation Morehouse Engineering ΝΔSΔ National Philanthropic Trust New Jersey Institute of Technology Novartis Pharmaceuticals Corporation Ortho McNeil Janssen Pharmaceuticals Port Authority of New York & New Jersey Josh 🔺 & Judy Weston

#### New York City Regional New York, NY

Sanjiv Bhatt Bloomberg Jeremiah & Karen Callaghan ConEdison Credit Suisse Patricia Daly D.E. Shaw & Company DeVry College of New York Reham Fagirl Cherrie Fleisher-Strauss Catherine Geczik Katherine Gleeson Goldman Sachs Goldman-Sonnenfeldt Foundation Fund Google Inc. Johnson & Johnson JP Morgan Chase Foundation Edina Jung **Richard Katzman** John Keenan John Kennev Mark Kirsch Kenneth & Jerilyn Kronen

The Lipper Family Charitable Foundation Thomas & Paula Gabrielle McInerney MetLife MTA - New York City Transit Gerard Muldoon NASA New Jersey Institute of Technology New York Stock Exchange Fund Novartis Pharmaceuticals Corp. Polytechnic Institute of NYU Port Authority of New York & New Jersev David Richard Inna Slavin SONY Corporation of America Daniel Spadaro Alfred Spector Terex Corporation Kent Tung Two Sigma Investments LLC James R. Utaski Visconti John & Amy Weinberg Foundation Josh Weston 🔺 Josh 🔺 & Judy Weston Foundation Inc

Oklahoma City Regional Oklahoma City, OK

Tony Yee

#### ABB Inc. BAE Systems Land & Armaments Cardinal Engineering Mike Cawley Cherokee Nation Chesapeake Energy Chickasaw Nation Mickey L. Clagg Creative Oklahoma, Inc Dell, Oklahoma City Elliot & Associates Architects Robert E. Howard II Ideas Mfg., Inc. Steve Mason - Cardinal Engineering McElrov Manufacturing, Inc. MSC Industrial Supply **Oklahoma Aeronautics Commission** Oklahoma Business Roundtable Oklahoma Center for the Advancement of Science & Tech Oklahoma City Convention And Visitors Rureau Oklahoma Department of Career and Technology Education Oklahoma State University Oklahoma State University College of Engineering The Oklahoman Samson Saxum Communications

Sonic Corp.

University of Oklahoma University of Oklahoma College of Engineering University Tulsa The Williams Foundation

#### Oregon Regiona Portland, OR

Autodesk **Bonneville Power Administration** City of Wilsonville Edelman ESCO Corp. FLIR ITT Technical Institute Mentor Graphics Microchip Technology, Inc. Oregon Museum of Science and Industry Oregon State University Platt Electric Supply Portland Arena Management Portland Community College TechAmerica TechStart Xerox Corporation

#### Palmetto Regional Clemson, SC

BMW

College of Engineering and Science, Clemson University **Comporium Communications** Duke Energy Fluor The InterTech Group MB Kahn Michelin Palmetto Net Palmetto Partners for Science and Technology Scan Source South Carolina Broadcaster's Association South Carolina Department of Education Square D Verizon

#### Peachtree Regional Duluth, GA

ASME Automationdirect.com Arthur M. Blank Family Foundation Cisco Systems Inc. DeVry University Edelman General Electric Volunteers Georgia Institute of Technology Georgia Power/Georgia Power Foundation global glacéau vitaminwater & glacéau smartwater Kimberly Clark Lockheed Martin

"Programs and initiatives aimed at capturing students" interest in math and science.

#### Mark Pieroni

The Motorola Foundation Netherlands American Community Trust Mark Pieroni Siemens Energy and Automation Southern Company Southern Polytechnic State University Teradata Corp Turner Broadcasting

#### Philadelphia Regiona Philadelphia, PA

Drexel University DuPont ETC **GE** Foundation Lockheed Martin Corporation - MS2 Motorola Foundation PECO (Exelon) Rohm and Haas Company **Temple University** 

#### Pittsburgh Regional Pittsburgh, PA

Carnegie Mellon University Foster Miller / Applied Perception **GE** Foundation Howard Heinz Endowment Parametric Technology Corporation (PTC) University of Pittsburgh

#### St. Louis Regional St. Louis, MO

**ABNA Engineering** Harry Baker James G. & Catherine Berges Donor Advised Fund at the University of Notre Dame Thomas G. Cornwell

The Doerr Family DRS Technologies Emerson Employees Community Fund of Boeing St. Louis Enterprise Richard C. D. Fleming and Sarah B. Smith Innoventor ITT Technical Institute-Arnold James Mulligan Printing Dr. and Mrs. Ernest G. Jaworski Lindenwood University Carol B. Loeb MasterCard Worldwide Douglas & Denise McElvein Missouri University of Science & Technology Gordon Robinson The Saigh Foundation St. Louis Chapter of the Society for Manufacturing Engineers St. Louis Community College The Saint Louis Science Center Saint Louis University The Seeser Family The Society of American Military Engineers Spoehrer Family Foundation Westwood Country Club

#### Sacramento Regional Davis, CA

Abbott Laboratories Fund Chevron Energy Technology Co. Regents of the University of California

San Diego Regiona San Diego, CA BAE Systems, Inc

## 5 5

SBPLI Long Island Regional Hempstead, NY BAE Systems BDS Solutions Bethpage Federal Credit Union Brookhaven National Laboratory CEMS DeVry College of New York Farmingdale State College FESTO Corporation Hofstra University InfoHighway, Inc. Ingerman Smith LLP Senator Owen H. Johnson Long Island Fiber Exchange Municipal Testing Labs Nassau Educators Federal Credit Union nGeneYes Inc. North Atlantic Industries Northrop Grumman Corporation Old Dominion Freight Lines OmniTurn South Oaks Hospital Suffolk County Chapter New York State Society o Professional Engineers Stony Brook University **Teachers Federal Credit Union** Ziehm Medical LLC

BAE Systems-Land and Armaments

Motorola Foundation

Teradata Corporation

Qualcomm, Inc.

Viasat, Inc.

#### Silicon Valley Regiona San Jose, CA

BAE Systems-Land and Armaments Google, Inc. NASA-Ames Research Center Parametric Technology Corporation (PTC) San Jose State University-College of Engineering

#### Waterloo Regional Waterloo, ON, Canada

Maplesoft NDI Quanser RIM TD Bank Financial Toyota Motor Manufacturing Canada University of Waterloo Youth Science Canada

#### Wisconsin Regional Milwaukee, WI

American Council of Engineering Companies - WI Badger Meter Brady Corporation Engineers & Scientists of Milwaukee GE Healthcare

J. F. Ahern Company Ladish Co. Foundation M & I Bank George E. Mainman Marguette University Milwaukee Area Technical College Milwaukee School of Engineering George & Julie Mosher MSI General Northern Bank and Trust Oshkosh Corporation P & H Mining Equipment Plexus Corporation Polymath, Inc. QuadTech, a Division of QuadGraphics **Rockwell Automation Foundation** Thomas Products, a division of Gardner Denver Inc Vertz Insurance Agency Waukesha County Technical College

#### 2009 FIRST ROBOTICS COMPETITION TOP TEAM SPONSORS (10 or more teams in 2009)

3M BAE Systems The Bezos Family Foundation Bloomberg L.P. The Boeing Company Booz / Allen / Hamiltor Caterpillar Inc. Cerner Corporation The Chrysler Foundation Con Edison Delphi Corporation DeVry University Ford Motor Company GE Volunteers General Motors Corporation Google, Inc. Honeywell International Inc. Houston Robotics Indiana Department of Workforce Development ITT Technical Institute Ewing Marion Kauffman Foundation Lockheed Martin Corporation Medtronic Inc. Motorola Foundation NASA NASA, Johnson Space Center Northrop Grumman Corporation Nypro Community Spirit Team Grant Oklahoma State Department of Education The Port Authority of New York & New Jersev Parametric Technology Corporation (PTC) QUALCOMM Incorporated Raytheon

**Rockwell Automation** Toronto District School Board The Texas High School Project Fund of Communities Foundation of Texas Verizon Communications Inc.

The Walt Disney Company **Xerox Corporation** 

#### 2009 FIRST ROBOTICS COMPETITION STRATEGIC ROOKIE TEAM GRANTORS John Abele 🗖

William "Bill" Dovle Gordon Lankton **A** /"Nypro Community Spirit" Team Grants Pershing Square Foundation/Bill Ackman James R. Utaski 📕 Josh Weston 🔺 Ronald L. Zarrella

#### 2009 FIRST ROBOTICS COMPETITION **TEAM SPONSORS**

INVENTIVITY 100 Black Men of Atlanta, Inc. 21st Century Fund **3 Dimensional Services** 303 RAMP 3M 3M Dyneon **3M** Foundation 3M Wonewok 4Frontiers A & C Metals A&M Industrial Supply A & M Precision Measuring Services Inc. A-1 Manufacturing ΔΔΙ AAI Corporation Dr. Mary Aaland Aalderink Electric Co. Aaron Industries, Inc. Aaron's Family Fun Center AARP ABB ABB Drives ABB Robotics Abbott Diabetes Care, A Division of Abbot Laboratories Abbott Fund ABC Signs **ABCO** Automation John Abele 📕 The ABLE Trust ABLE, Inc. Access Access International ACCP & CHEST Foundation ACE ACE Auto ACE Clearwater Enterprises Ace Communications Group



ACE Hardware ACE Hardware of San Leandro Ace Metals ACE Robotics The Ackman Family Foundation L. Ackman Acord Holdings Acrotech ACTI Active Shock ACTUS Lend Lease ADC Telecommunication ADP ADP Foundation Adpro of OK, Inc. Advance Turning & Mfg. Inc. Advanced Composites Group Advanced Industrial Supply Advanced Manufacturing Techniques Inc. Advanced Polymer Coatings Ltd. Advanced Science and Technology Education Center, Inc. Advanced Technology Services AdvanceSC Advion ΔFP AEP Ohio AEP SWEPCO **AEP-American Electric Power** AEP-American Electric Power (Elkhart, IN) AEP-PSO Aeroflex Aerojet Aeronautics Aetna Life & Casualty Company

AFCEA Hawaii AFCEA San Diego AFFECT A Frame Awards, Inc Africa Israel, Bank Leumi, Refael After School Matters AG New England Agawam Robotics Education Association Agilent Technologies, Inc. AHS PTSA AIAA (American Institute of Aeronautics and Astronautics) A.I.A. Plastics AimPoint Technologies Air Assurance Air Quality Sciences Airborn Flightware Airbus Aircom Manufacturing Airline Hydraulics Akamai Foundation Akimeka, LLC Alaska Robotics Education Assoc. Albany Rotary Clubs Albany Schools Foundation Albertsons Alcoa Foundation Alcoa Howmet Alderman Chevrolet and Toyota Alexander & Associates Alexander & Baldwin Foundation-Matson Navigation Company Alexandria Reality

Algonquin College

Allegro Microsystem Inc. Allergan Inc. Alliance Bank Allied Fence Company Allison Transmission Alloy Cutting Aloha Computer Consulting AlphaPlex ALRO Steel The Alstar Company Alstom Alstom Power, Inc ALTA Design and Manufact Altair Altek Altshuler Shaham Altuglas International Arken Altus Alubin The Alumni Association of School of Science Alwavs Al Xander Company, Inc AM General Amberwave Systems AMD Ameren Illinois Utility American Acrylics USA LLC American Association of Bla American Astronautical Soc American Electric Power American Electrical Inc. American Federal American Heritage Education American Legion Post #24

#### "You can see the lights going on in their heads as they are coming up with all these imaginative ways to solve the missions."

Scott Gray Electrical Engineer FLL "Nuclear Knights" Coach

	American Nuclear Society RRSD
	American Savings Bank
	American Society for Quality
	American Society of Mechanical Engineers
	American Society of Naval Engineers
	American Tank and Fabricating Co.
& Repair	American Welding Society
	Amerityre
	Ametek
	AMF Automation Technologies
	Amherst Quarries
	Amplifier-Research
uring Inc	AmVets Centerburg Post 59
	Anadarko
	Anadigics
	Analex Corporation
na Group	Analogic Corporation
	Analytical Graphics Inc.
	Analytical Mechanics Associates
The Bronx High	Anderson Power Products
0	Andrew and Judith Economos Foundation
	Android Industries
	AndyMark, Inc.
	Angelina Community College
	Anheuser-Busch
	Anver Corporation
	Anything Vinyl
;	Apex Machine Co.
acks in Energy	Apex Manufacturing Services Ltd
ciety	Apotex Inc.
	Apple Skin Media
	Appleby College
	Applied Design
on Foundation	Applied Industrial Technologies
	Applied Manufacturing Technologies

Applied Systems Intelligence Applied Welding Technology APSCO Inc. Aquila, Inc. **ARC** Specialties Arcadis Engineering Arcata Associates, Inc Arco Construction Co. AREA Argent Assoc., INC. Arial Foundation ARINC Technical Excellence Society Arizona FIRST Committee Arizona FIRST Supporters Arizona Latino Research Enterprise Arizona Mechanical Insulation Arizona State Universtv ARL (Army Research Laboratory) ARM Armada Lions Armazem dos Parafusos Armed Forces Communication Electronic Association Education Foundation Armed Forces Communication Electronic Association Education of Hawaii ARO Technologies Arrow Metal Stamping Artec Interiors **ARVEST Bank** Arylessence ASCE Hawaii Ascentium ASCO ASECO Integrated Systems Ash Foundation Ashbrooke Independent School Ashley Lions Club **ASI** Technologies ASME International ASME International Petroleum Technology Institute Aspen Systems, Inc. Aspenware Internet Solutions ASRC Assatec Asymtek AT&T ATK (Alliant Techsystems) ATK Space Atlanta Gas Light Attractions Unlimited, Inc. ATW: Advanced Technology and Testing AUDIBLE.COM Aurora Flight Sciences Corporation Ausco Inc. Austin, Tsutsumi, & Associates Autodesk, Inc. Automated Systems

Automation Direct Automation Electronics Automation Services Inc. Autonomous Solutions, Inc AutoTrader AUVSI Avineon Avis Rent a Car AVL AVL North America, Inc AXA Advisors LLC Axiom Technology Services AZCTE Azure Dynamics B & A Motorsports **B&G Deli Caterers** B.C. Canvas B.L.A.S.T., INC. **B3** Advanced Communication Systems Dr. Charles & Jeanne Bacon Bad Boys From Bay Shore Ltd. BAE Systems BAE Systems- Ft Walton Beach, Fl **BAE Systems Land & Armaments BAE Systems Norfolk Ship Repair BAE Systems-Mobility & Protection Systems** The Baehr Foundation Bains Auto Centre Baker Bookkeeping and Taxes Baker College Baker Hughes-Centrilift The Bakken Museum Balance Product Development **Baldwin Foundation for Education** Ball Aerospace & Technologies Corp Ball State University Ballard High School PTSA The Balloon Detail Ballston Spa National Bank Baltimore Area Alliance (BAA) Baltimore City Public School System Baltimore Polytechnic Institute Alumni Association Bangor Metals Bank Happalim Bank of America Banks Integration Group Inc. The William C. Bannerman Foundation The Barrie Family Barry-Wehmiller\PCMC Barth Electronics, Inc **Bartlesville Rotary Club Bartlett Foundation** Barton Malow Rigging Bassett Furniture, Inc. Battelle **Battelle Energy Alliance** Battelle Memorial Institute





Bishop's Orchards Bittware, Inc. B-K Lighting Black & Decker Black & Veatch Blackhawk Model Railroad Association Blackstone Valley Vocational Regional School District Blank Sheet, Inc. The Arthur M. Blank Family Foundation Brvan Blankenship BLAST (Building Louisiana Science and Technology **BLAST** Foundation **BLITZ Solutions** Bloedorn Lumbe Bloomberg L.P. Blubstein Metal Works Blue Door Consulting Blue Print Automation Blue Ridge Tool, Inc. Blue River Community Foundation BlueChip Machine & Fabrication Bluefin Robotics Bluff Plastics BMG Metals, Inc BMP Metals Board of Education Member, Margaurite Poindexter LaMotte, District 1 The Boeing Company The Boeing Company — Israel The Boeing Company — St. Louis, Mo Boeing Employees Community Fund **Boise Schools Education Foundation** Bombardier Aéronautique Booker T. Washington Foundation

for Academic Excellence Dr. Ray Booker Booz / Allen / Hamilton BorgWarner Morse TEC BOSCH Bosch Rexroth Boston Engineering Corporation **Boston Scientific Corporation** Boston University Boulder City Chamber of Commerce Boulder City Home Hardware Boulder County Community **Boulder Valley Credit Union** Bounty Bova's Hardware Bowie High School **Boves Construction** Boys & Girls Club of America RP **BP** America BP&R Engineering, Inc. Brackett Aircraft Bradley Investments, LLC The Brady Foundation Brainard Rivet Company BrainPort Technologies Brascril Brennan Equipment and Manufacturing Company Bresser Construction Management Inc. Brevard Public Schools Bridgestone Firestone Briggs & Stratton Corporation Briley Sonics Bristol-Myers Squibb

British Petroleum Broadbent & Associates Broan NuTone Broken Arrow Partners in Education Brookhaven National Laboratory Brooklyn Tech Alumni Foundation, Inc. Brooks Automation, Inc. Brother International Dale and Shirley Brown Brown University Brown's Needlework Bruce Power Buca di BEPPO Buchanan & Edwards Bunge Morristown, IN **Bunting Sand & Gravel** Bureau of Reclamation Bureau of Reclamation- Boulder Dam Phillip & Lauren Burkum Burns & McDonnell Burns Controls The Burns Group Butterworth Industries Bytewise C C Marine Services C. Thorrez Industries CAB Incorporated Cableform, Inc. Cacioppo Foundation CAD MicroSolutions Inc. Caddo Electric Cal Poly Pomona University Cal Poly San Luis Obispo California Imaging Institute California State University, Los Angeles-MEF California State University, Northridge Calit2 **Callidus** Technologies **Cambridge Angels** Campbell's Soup Campsmount Technology College CAMS PTSO Canadian Space Agency Canadian Standards Association Cannon Muskegon Canon Virginia Inc. Capaldi Corporation Capco CAPER CAPER of Richmond, VA. Capital Area Partners for Educational Reform Capital Fabrication Capriol Capsugel The Carcannon Corp Cardinal fo **Cardinal Industrial Finishes** 

Cardiomind, Inc CARE Grant Career & Technical Training, LLC Career Technical Education Foundation, Inc. Carfaro Railing, Inc Cargill Cargill Corporation The Cargill Foundation Carl Pearlman and Associates Carman-Ainsworth Education Foundation Carrier Corporation (a United Technologies Company) Carris Reels Case Engineering Case Western Reserve University Casper College The Castaing Family Foundation Castle & Cooke, Inc. Dole Plantation Cat Cheoon Restaurant Caterpillar Inc. CBORD Cedarwood Technical Service Celgard, LLC Cellcom Israel Ltd Cembell Industries Center for Space Resources Centerline CenterPoint Energy Centocor, Inc. Central Alumni Educational Foundation Central Lakes College Central Powder Coating Central Texas STEM FOUNDATION **Central Valley Robotics** Centre for Communication and Information Technology The Centre Cerner Corporation CertTech CG Schmidt Construction CH2M Hill The Challenger Learning Center of Richland County School District One Chaminade College Preparatory Charles Machine Works (Ditch Witch) Charlie's Chicken Charlotte Mechanical, LLC Charlottesville Venture Group Chatham Rotary Club Check-Mate Industries, Inc. Chelsea Comfort Inn and Conference Center Chelsea Tool ChemTreat The Chen Family Cheney Tech PTO Cherokee Nation **Chevron Corporation** Chevron Oil

Chevron USA Inc Chicago Soft, Ltd Chick-fil-A, Dave Lyle The Ching Family Chino's Auto Service Chipotle J.A. and Carol Christopher Chroma Technology The Chrysler Foundation Chrysler Foundation-Mack Ave Engine Plant Chrysler Proving Grounds Chrysler St. Louis Assembly Plant CIM 3 Engineering Cirque du Soleil Cisco Systems Citizen's State Bank of Finley Citrix City College of New York (CUNY) City of Belding City of Encinitas City of Hammond City of Manassas Public Schools Education Foundation, Inc. City of Milpitas City of Paola City of Poway City of Rishon Lezion City of Wilsonville, Oregon City Tech Civil Air Patrol Clal Industries Claremore Weld Shop Clarion **Clarity Management Clarke County Education Foundation** Clarkson University Clarkston Rotary Classic Turning **Cleveland County 4-H Foundation** Cleveland TechWorks CLS Group Clvde Bergemann, Inc. CMKLV CNC Software CNC Woodcraft COACH Robotics, Ltd. Coast 2 Coast Cables Coast Aluminum Coast Aluminum and Architectural, Inc. Coast Crane Company Cobb EMC Cobham The Coca-Cola Company Coffey Machining Services COGCO, Wireline Inc Billy Colbert **Colborne Engineerin** 

CoLogiQ **Colonial Metals** Colonial Supplemental Insurance Colorado Plastic Products, Inc Colorado School of Mines Colorado Space Business Roundtable Colorado University Columbia University Columbus Public Schools Columbus State Community College Columbus Technical College Columbus Technologies and Services Comau, Inc. Combustion Dynamics Comcast Comcast Cable ComDev Comgrap Commenco Commerce Bank **Communities Foundation of Texas** Community Colleges of Baltimore County **Community Education Coalition** Community Foundation of Danville Pittsylvania County The Community Foundation of Mt. Vernon and Knox County Community Foundation of Northern Illinois **Compass Solutions** Compear Design Complete Automated Solutions **Computer Concepts** Computer Resource Team, Inc. Computer U, Inc. Con Edison Con Edison Bloomberg Media Concept Systems, Inc. CONCYTED Connie's Glass ConocoPhillips Consolidated Edison Consumers Energy **Continental Corporation Continental Fabricators Continental Technologies** Control Air Control Equipment Company Convatec Conway Cool Jewels Cooper Power Systems Copper and Brass Sales CopperBend Pharmacy Cordis Corporation (a Johnson & Johnson Company) **Corman Construction** Corning Tropel

Collbran Job Corps Grand Mesa

**Corporate Pharmacy** Corrosion Products, Inc. Corry Contract, Inc Corry Industrial Roundtable Corry Lumber Company Corry Manufacturing Company Corry Rubber Corporation Country Club Bank Country Wide Realty Countywide Metal Fab & Finish Covanta Energy **Covell Funeral Homes** Cox & Company, Inc. Cox Communications CPFilms, Inc **CPI Security Systems** CPS Energy **CPSD** Law Firm Craftco Metal Services Inc. Craftsmanship Crane Co. Creating Positive Change Creative Affair Universal Music Publishing Group Credit Suisse Credit Suisse First Boston Criterium-Turner Engineers The Crosby Group **Crown Point Community Foundation** CruiseHawaii Crystal View Corp. CSI CSTEM C-STEM Teacher & Student Support Services, Incorporated CSU-Fresno, College of Engineering CTDI CTS Corp **Cubic Corporation Cuivre River Electric** Culver City Industrial Hardware Cummings Inc. State Assemblyman Michael Cusick The Custom Company **Custom Creations** Custom Electronics Custom Finishers Cuyahoga Community College Cuyahoga County Workforce Development CV Robotics **CVS Caremark Charitable Trust** CvboSoft Cypress Computer Systems Inc. **D&E Machining Inc** D. E. Shaw & Co.

D.R.M. Stakor and Associates. Inc

D5Robotics : School District Five of Lexington and Richland Counties D6 Industries, Inc. Dahti Seating Dakota Prairie Supply Dana Corporation Dana Holding Corporation Dane County Robotics Daniel Webster College Daniel's **Daniels Foundation** Dan's Robotic Team Danville Pittsvlvania County Chamber of Commerce Danville Public Schools Gifted Resources Dart Foundation Dashiell **DASI** Solutions Dassault Falcon Jet Corp. Data Tactics DataHouse Davco Fab. Inc. Dave's Glass and Tint Marv C. Davis Davison Tool & Engineering, L.L.C. Day Tool Dayton Superior Daytona State College Dean Karl & Verna Lou Reid **Decisive Analytics Corporation** Dee Que Productions Defense Acquisitions Agency Defense Threat Reduction Agency Delaware Valley Industrial Resource Center Dr. Nancy Delboy Delex Systems, Inc The Dell Foundation Dell Inc. Deloitte Services LP **Delphi Corporation** The Delphi Foundation Delphi Steering Systems (a subsidiary of Delphi Corporation) Delphi Thermal Delta Air Lines, Inc. Delta Gases DENSO Department of Labor DePuy, Johnson & Johnson Companies DesignTree **Devry University** DeWALT Dexter Research DHACNY Dr. Anil Dhar Medicine Professional Corp. Dhara Group of Companies **Diagnostic Imaging Services** 

Diallo, Cromer, Toussaint, Posev & Polk, PLLC **Didrikson Associates Digital Fabrication Dimensional Communications** Di's Creative Edge **Discount Investments Discount Tent Renter Discovery Management Group DISTek Integration, Inc** Diteba Research Laboratories Inc. Diversified Check Solutions LLC Diversified Global Enterprises -DGE Diversified Systems, Inc **Diversified Tooling Group** Dixieline James and Charolette Dobbins Dobbs Tire and Auto Centers DoDDS Dole Food Company of Hawaii Dominion Dominion Millstone Power Station **Dominion Nuclear Connecticut Inc Dominion Power** Don's Prop Shop Door Systems **Dorchester County Council** Dorel Dorvo Maguinas Dos Covotes Dott-Communications, LLC Double Decker Lanes **Douglas Festival Committee** The Dow Chemical Company Dow Corning **Dow Water Solutions** 

Dowling Company, Inc William "Bill" Doyle DP Products Draper Laboratories Dreamworks Animation skg Drexel University DRH Design Group **DRN Machine** DRS C3 Systems, LLC DRS Technologies Drumright High School DST **DST** International DST Systems, Inc DTA Inc. DTE Energy The DTE Energy Foundation DTS Digital Dublin Robotics Boosters Dubno Brothers DuBois Consultants, Inc. Ducommun Aerostructures Duke Energy **Duncan Public Schools Foundation** Dupont Dupont Advanced Fiber Systems DuPont Center for Collaborative Research & Education (CCRE) Dupont Chambers Works DuPont Delisle DuPont Engineering Dupont-Favetteville Works Duquesne University Durakon Industries Durst Lumber



"Perhaps my example as a Coach can help show my daughter that women can enjoy science, technology, and engineering as well."

#### L. Taylor Jr.FLL <u>Coach</u>

## **M** 5 igodotJ.

Dynagram Dynalectric **Dvnamic Network Services** Dynatex International Dynegy FAA Eagle Air Med Eagle Alliance Eagle Aviation Technologies, Inc Eagle Fluid Power Systems Eagle Industries Inc. Eason Grant East Coast Appraisal East County ROP East Harlem Tutorial Program East Meadow Chamber of Commerce East Meadow Kiwanis Eastern Bank Eastern Educational Foundation Eastern Regional High School Board of Education The Eastern Sales & Engineering Company Eastern Shore Community College Eastern Shore Defense Alliance Eastman Kodak Company East-West Industries Eaton ebm-papst Inc Echrays Eclectech, Inc Eco-Bat Ecolab Inc. Dr. Andrew and Judith Economos Foundation ECPI College of Technology EDAK EDF Edge Space Systems Edgewater Automation EDI-ECI Elevator Cabs The Edmar Abrasive Company Edmonds Community College Education Plus Credit Union Educational Employees Credit Union Douglas and Shari Edwards EFC Systems Inc EFD Inc. EFP Corporation EHA EIT FI AI El Camino College El Pomar Foundation Elbit Systems Eldorado Energy Eldorado Rock Electrical Dynamics **Electrical Systems Services** 

Duty Free James Richardson

Electrocal Inc. Electrocraft Electroimpact Electronic Support Systems Elite Realty Inc. Elop Embry-Riddle Aeronautical University EMC EMC Corporation e-Merging Market Technologies LLC Emerson Emerson Motor Technologies Emhart Teknologies EMI Plastics Equipment Employees of Microchip Technology Inc. EMS Technologies Enable Training and Consulting EnCana Oil & Gas Encoder Products Company Energy Lock, Inc. Energy Solutions Engage Integrated Systems Technology Engel & Engel, P.A. Engine Monitor Engineered Automation Systems, Inc. Engineered Sales **Engineering Aluminum Fabricators** ENGlobal Enpro-Tech Entegris Entergy Entergy Grand Gulf Nuclear Entripy Custom Clothing Enviro Systems Inc. Envision Radio Corporation EPIC Systems Inc. EPILOG EPIR EPOH Equity Elevator ERDC Ernst &Young Ervin Coppridge Machine Co eServ eServ, a Perot Systems Company ESET Eskridge Inc. Estado de Queretaro Esty Environmental Partners ETHICON, LLC ETHICON (A Johnson & Johnson Company) ETHOS Inc. ev3 EvilRobotics.net Eviue Foundation **Evolve Machines** Evonik Industries

Exchange Bank **Exelon Nuclear-Byron Generating Station** Exfo Explus Inc. Expressway Self Storage Extrude-A-Trim Extrude-A-Trim Aluminum Warehouse Exxon Mobil Corporation ExxonMobil Chemical Company Fab2Order Fairchild Semiconductor Fairfax Christian Church Fairfield-Suisun Rotary Falls Church City Television FANUC Robotics America FANUC Robotics Inc. Farmer Machine Company Farmers Insurance Farmers Union Insurance Farmingdale University Farrington Alumni and Community Foundation Farrington Truck Towing Farwest Aviation Fastenal FCI Burndy Products Federal Mogul Fehr Graham & Associates Dr. Earl Ferguson Ferndale Education Foundation FEST Booster Club Festo Corporation FG0D1138 FHN **FHS Engineers** Fife Corp. Fike Corporation Fikret Yuksel Foundation Filtrona Fibertec Findlay's Machine Shop FireLink, LLC **Firestop Solutions** First Hawaiian Chocolate First National Bank of Fletcher First RF Corporation First State Robotics, Inc FirstEnergy Fish & Richardson Fleet Ready Corp. Flexicell, Inc. FLEXTRONICS Flint HIIIs Resources Flintco FLIR Systems Florence Darlington Technical College Florida Air National Guard 114th Squadron

Excel Engineering



Florida FIRST FRC Florida Hospital Watermen Florida Space Grant Consortium Fluid Power Society Fluke Fluor FNBC Foamex Fold-A-Goal Folsom Anesthesia Medical Group Fond du Lac Rotary Club Ford Assembly Plant Ford Motor Co. of Canada, Limited Ford Motor Co., Fluke Biomedical Ford Motor Company Ford Motor Company Kansas City Assembly Plant Ford Motor Company-Team Ford First Forest Lumber Fort Bend Focus, LLC Garv Foss Foster-Miller, Inc Founder's Tavern Fourte' Design & Development, LLC Fox Valley Technical College FPL Energy Francis Parker School Frank Design, LLC Frank's Building Supply Frazier Aviation Frazier Park Ace Hardware Fred Needel, Inc. Fred's Hardware Freescale Semiconductor, Inc. FreeSurf

The Fremont Area Community Foundation Friends of 1923 Friends of Region 15 FIRST Organizations LLC Friends of Sidney High School Science Front Range Engineering **F'SATIE** fugleberg seed and bean FujiFilm Inc. The Future is Mine Future Techologies G & L Precision Corp. G & L Tool Game Stop Gamewood Data Systems Garmin Garrett Container Systems Gates Gateway Technical College GBA GE Aviation Systems **GE Volunteers** GE Volunteers of GE Healthcare The Geek Group Geek Squad Gelfand Family Foundation Gene Tools Genentech, Inc. Generac Generac Power Systems, Inc. General Bearing Service Inc General Cable General Devices General Dynamics General Dynamics Advanced Information Systems

General Electric (GE) General Electric Volunteers General Mills Inc. General Mills, Alternatives General Motors General Motors Arlington Assembly General Motors Canada General Motors CCRW General Motors Engineering Structural Development Laboratories

General Motors Flint Truck Assembly General Motors Finance Staff General Motors Foundation General Motors General Assembly Engineering

General Motors Grand Rapids Metal Center General Motors Manufacturing General Motors Mexico General Motors Milford Proving Ground General Motors of Canada General Motors of Canada

(Engineering & Product Planning) General Motors Opel Division General Motors Powertrain General Motors Powertrain Corp. General Motors Research and Development General Motors St. Catharines Powertrain General Motors St. Catharines Powertrain & OPG

General Motors WFG Gentex Gentle Giant Moving Company Genworth Financial, Inc. Geokon, Inc. George Mason University Georgia Institute of Technology Robojackets

"I had no opportunities in the past. I didn't have an interest in building robots and engineering and all that stuff. Now it's opened up a whole new world for me."

> Alicia Coates SIATech High School student and FRC "Team 1834" member

> > Georgia Pacific Georgia Power Company Georgia Tech Research Institute The Gerber Foundation Cindy Gilbert **Gilford Rotary Club Gill Industries Girard Foundation** GIT General Imaging Technology Givaudan Glass Pro Gleason Works **Glen Magnetics Glendale Community College Global Controls & Electric** Global Re-Source Funding Global Science & Technology Inc. GlobalAgendaGame.com GlobalQuota Gloucester Education Foundation (GEF) Godwin Pumps Goldman Sachs Goldstar Machine & Tool Gone Tropo, LLC Dr. J.K. Good Dr. Eileen Goodes Goodfellow Corp. Goodrich Goodrich Aerostructures Goodwin Services Google, Inc. Gordon Kuwada Gordon Woods Welding Supply Gore Designs

> > > Gorman's Gallery

Government Systems IPT Graco Graffi-T's **GrafTech Corporation** Graham Foundation Yvette & Larry Gralla Grand Rapids Community Foundation Grand Traverse Radiologists, PC Grand Traverse Stamping Division of Alcoa Grandview Heights Marble Cliff Education Foundation **GRAPCEP** Davenport Graphite Engineering Grasso Plaza GRAYBAR Graystone Inc. Great Lakes Eye Consultants Peter D. Fedor, M.D. Great Lakes Industry, Inc. Great Lakes Manufacturing, Inc. Great Plains Technology Center Foundation Greater Cleveland Partnership Greater Nashua FIRST Robotics, Inc. **Greater Texas Foundation** Zoe & Steven Green Greenquard Greenville Tech Gread Williams Foundation Griffin Land Grimsley's Janitorial Supply Fred C. Gross Groton-Dunstable Education Foundation Groton-Dunstable Science, Technology, Engineering and Math Grundmann Consulting Grupo Andrade G-S Machine Shop GSD Group, Inc. GTRCF Assisting Children's Education Fund **Guardian Industries Guerra** Consulting **Gues Sol Services** Gulf Power Gumbo George Gund Foundations The Todd and Mari Gutschow Family Foundation **Guvette Communication** GVSU H&W Foods Haberman Foundation Marv Hakoda Halco Welding Haldex Hydraulics Halliburton Hallmark Cards Hallmark Manufacturing, Co.

GovConnection, Inc

Halton District School Board Pathways Hamakua Macadamia Nut Hamilton Foundation Hamilton Sundstrand (a United Technologies Company) Hamilton Sundstrand Energy, Space & Defense (a United Technologies Company) Hamilton Sundstrand Power Systems Hamilton Township Education Association (HTEA) Hamlet Advanced Technologies Hammerhead Construction Jerry and Jean Hammocl Hammond Sheet Metal Hanlon Engineering Hanover Education Foundation Harcourt Trade Publishers, Houghton Mifflin Riverdeep Group Hardcore Racing hardware hank Hardwood Line Harker Foundation Harlev-Davidson Harley-Davidson of York Harold and Goldie Begley Harris & Bruno International Harris Corporation Harro Hoflinger Hartfiel Company Hartford Engineering, LLC Hartford Public Schools Hartford Steam Boiler Inspection & Insurance Company Hart's True Value Hardware Harvest Foundation Harvey Industries Hasbro, Inc. Haskins Inc. Haskins Steel Hatch Hatch Mott MacDonald Hatton Mens Club Hawaii Electric Light Company Hawaii Nut and Bolt Hawaii Space Grant Consortium Hawaii Star Bakerv Hawaii Visitors and Convention Bureau Hawaiian Candies & Nuts Hawaiian Dredging Hawaiian Electric Co. Inc Hawk Institute for Space Sciences Hawkeve Labor Council Haworth Inc. Hawthorne Machinery Hayward Family HDR Archer One Company **HE&M Saw** Heads Up Construction



Healthcare Facilities Management Society of New Jersey Heart 4-H Heartland Fabrication & Machine Heat Transfer Systems HECO Irene Hedrick Heights Rotary Greg Heilman The Bruce J. Heim Foundation The Heinz Endowments Henderson Mill Hendricks Fabrication Henkel Technologies Henline Towing, Inc. Hennepin Technical College The Hennessy Family Foundation Henrico Education Foundation Inc. The Henry Ford Herman Miller Foundation Heroic Tec Hershey Company Hershev-Palmyra Sertoma Club Herzing College Herzliya Municipality Hewlett-Packard Development Company, L.P. HHS Robotics Booster Club HI Solutions Higgs Tech Consulting High Country Water Jet High Tech Laser & Engraving **Hijinx Comics** Hill Phoenix Hillsborough Education Foundation Hilltop Hincklev Research **Hispanic Engineers National Achievement** Awards Corporation Hitachi Automotive Hitec RCD HK Systems Inc. Dr. L.L. Hoberock Kathryn K. Hodge Holland area Poker players Holland Town Center Hollis & Miller Architects Holy Trinity Catholic Secondary School Home Depot Home Depot Geneva Homeschool HUB Honda of America Honda of America Manufacturing Honda R & D Honeywell Honeywell FM&T Honevwell Hometown Solutions

# **SPONSORS**

Honeywell Inc. Honevwell International Hooker Furniture Corporation Horace & Laura Whitman Hoselton HostRocket co Hot Chalk Hot Rod Express House Foundation Houston Endowment, Inc. Houston Robotics Howard County Public Schools Howard Rose Bob Howard HR Textron Inc The Hsueh Family Hudson Farm Foundation Hughes Resources Huizenga Group Humber River Regional Hospital Foundation Hvdrafab Northwest Inc. Hydraguip Hvaro-Serv Inc Hypertherm Hytek Plastics I & G Tooling, Inc. I. J. and Hilda M. Breeden Foundation IAF-ASSOCIATION IAF-DEPOT 22 IAI Iannelli Construction Co. Inc IBEW Local 280 IBM IBM Corp Hazelwood, MO IBM T. J. Watson Research Center ICO Polymers

Idabel Foundation for Academic Excellence Idaho National Laboratory Idaho State University GK12 IDFO IDEXX Laboratories IDF 108 IEEE IEEE Coulee Subsection IFFF of Akron ILC Alumni Association ILC Dover, Inc. Illinois Institute of Technology Illinois Manufacturing Foundation ILMOR Impact on Education Imperial Valley MESA IMPI ROBOTICS IMS IMT York & Bank of York Incodema INCOTEC Indian Peaks ACE Hardware Indiana Department of Workforce Development Indiana Workforce Development Industrial Metal Supply Industrial Specialties Infineum Infrared Remote Solutions Inmarsat Innovation First, Inc. Innovative Manufacturing Solutions Innovative Networks Innovative Signs InSequence Insight Technology, Inc.

Instrument Society of America InSynergy Engineering Integra Foundation Integra Telecom Integralis Integrated Combat Systems Integrated Control Corporation Integrated Controls, Inc. Intel Corp. intelitek Intelitek/Robotec Intellectual Property Research Intellectual Ventures Intelli Response Intelligent Automation Inc Intermec Corporation International Coal Group International Council on Systems Engineering International School PTSA International Technology Solutions, Inc. Intertape Polymer Group Intralox Intuitive Surgical, Inc. Invensvs Process Systems Inventory Sales Co. Iowa Fluid Power Iowa Space Grant Consortium Iowa State University College of Engineering IPAA IPEI Iridescent Iris Meyer Realtors Iron Horse Development lscar Island Board Designs Israel Air Force Israel Aircraft Industries Israel Navy Ship Yard **Issa Family Foundation** Issaguah Schools Foundation IST Isthmus Engineering & Manufacturing IT Kauai Itasca Community College ITEA Itron. Inc. ITT ITT Corporation ITT Industries ITT Power Solutions ITT Technical Institute ITT Technical Institute Tucson Campus ITT Technical Institute-1930 Mever Drury Dr. ITT Technical Institute-Arlington, Texas lturan ITW Drawform Ivy Tech Community College

iWoz J Adams Multimedia Productions J Embedded J W Faircloth and Son J&F Machine Jackson and Tull Jacobs Engineering Irwin and Joan Jacobs Jacobs Technology Jacobs Technology ROME Group Jacobs, ESCG James Carpino Janco Electronics Jane Ryan Janssen Janssen Pharmaceutica Jarrett Welding Java Signs Etc. **JBC** Technologies JBT FoodTech JCPenney JCPennev Afterschool Fund JE Dunn Construction JEA Jech Technologies JEF Inc Jefferson Adult Boosters Jefferson Labs Jennings Foundation Jens Studios Jerry's Pharmacy Jersey Mike's Subs Jet Propulsion Lab Jim Minkey Remax Today JLP Enterprises LLC JM Welding JMC, Inc. JMHS PTSA JMP Racing John Deere John Deere Horicon Works John Deere Waterloo Operations John Tabacco SR. Foundation John Tyler Community College Johnnys Pizza Johns Hopkins Pathology Johnson & Johnson Johnson & Johnson Consumer and Personal Products Worldwide Johnson & Johnson Consumer Products Worldwide Johnson & Johnson PRD Johnson & Johnson VISTAKON Johnson Books & Stuff Johnson Controls Johnson Controls Foundation Johnson Research and Development Co., Inc.

Joint Astronomy Centre Jones Apparel Company Jones Family Foundation Jordan Fundamentals Jostens JP Fabrication & Repair JR Automation Technologies, Inc. JRLON JT 3 LLC Jubilee Housing Initiative & Community Development Corporation Judson University G. Michael Kabot, DDS KaDa Medical Instruments Kahuku Farmers Kaloke Technologies Inc. Kansas City Kite Club Kansas City Power and Light Karl Mey's Collision & Paint Center Kastle Grinding KatArt Kathy's Music The Kauffman Family Ewing Marion Kauffman Foundation Kaydon Kavdon Bearings Kaz Inc KBC KBR KC Machine KCP&L KCScout Keihin Michigan Manufacturing Brenda Keith Kell High School Robotics Team #1311 Kellog Community College Kelly Aviation Lockheed Martin KenCo West Kennedy Associates Kennell Family Kenneth Koga Kenosha Area Business Alliance Ken-Tronics Kentucky Engineering Foundation Kentucky Fried Chicken Kepco Inc. Kettering University Key Technologies Inc KG Projections, Inc. Master Sot, Garv Kimball Kimberly-Clark Corporation Kimble Precision, Inc. KimRav Kimson's Trading LLC King's Saddlerv The Kinna Family Kionix Kirk England-State Farm Insurance

**Kissick Family Foundation** Kitchell KIUC Kiwanis Club Eustis Florida Kiwanis Club of Cleveland Kiwanis Club of Danville Kiwanis Club of Mount Dora Florida Kiwanis Club of Oregon Illinois Kiwanis Club of Ramona Kiwanis Club of West Branch Kiwanis Morning Club KMT Robot Solutions Knechts Ace Hardware Knesal Engineering Services, Inc. Dr. Dennis & Peggy Knox Komax Group KoOlina Resort and Marina корсо Kostal Hal Krause Krieger Machine KTS Tooling The Kuan Family KUKA Kuka Assembly & Test Kwiatt Custom Paint L D Inc. L. A. City Councilman Bernard C. Parks L-3 Communications L-3 Communications Integrated Systems L-3 Communications Narda Microwave L-3 Communications, ComCept Division La Crescent Community Foundation LABCONCO The Lable Printers Laboratory for Atmospheric and Space Physics Labsphere, Inc. Labview LaCour Ladish Co. Laird Plastics Lake City Federal Bank Foundation Lake City Medical Center Lake Country Woodworkers Lake County Board of County Commissioners Lake County Commission Lake Eustis Community Foundation Lake Michigan College Lake Michigan Community College Lake Region Medical Lakeshore Agencies LAM Research The Lam Research Foundation Lamar's Donuts Lanco Assembly Systems Lane Blueprint

Kirkpatrick Bank

"Nypro Community Spirit" Team Grants Lanmark Technology, Inc. Lannie Foster (Field Deputy) Office of Marguerite LaMotte State Senator Andrew Lanza Laredo Women's City Club Laron Engineering LARON Incorporated Larry and Nancy Richner Larry's Machine Shop Las Cumbres Observatory Global Telescope LASA Robotics Association Dr. Richard Lasbury DDS The Lau Family Lawler Gear Corp. Lawrence Technological University The Lazarus Group La-Z-Boy Inc. LCF Amps LCF Enterprises Leadership Center for Science & Engineering Leadership Kauai IFAP LEAP University of New Orleans Lee Company Justin Lee Lee's Summit Hy-Vee Leghart & Associates inc Linda Lee Leis Machine Shop Leoni Corporation LeRoy Family Dental Clinic Mr. Leski The Lesvna Family Lewis Marine Supply of Greenport LFR. Inc. Liberty Township Lifestvle Furniture Lifetime Portable Buildings, LLC liiit.com Lil' Ricci's Ken Carvl Linamar The Linde Group C.A. Lindell Linear Lighting Linn-Mar Booster Club Linn-Mar Foundation Lion Brothers Corporation Lipp Grant Litchfield Education Foundation Little Dixie Moving Company Livernois Vehicle Development Living Logos LLC GovConnection, Inc. Lloyd Farms

Llovd Industries

Gordon Lankton

Ed and Sue Lloyd The Lock Box Lockheed Martin Aeronautical Systems Lockheed Martin Coherent Technologies Inc. Lockheed Martin Corporation Lockheed Martin Human Space Services Lockheed Martin IS&S Lockheed Martin KAPL Lockheed Martin Missiles and Fire Control Lockheed Martin Simulation, Training and Support Lockheed Martin Space Systems Company Loco Trendz Logan County Commission London Tiaers Warren Loomis Los Altos Rotary Los Angeles County ROP Los Angeles Trade Tech Los Angeles Trade Tech College Lower Merion School Distric Dr. Richard & Ann Lowery Lowe's Lowe's Home Improvement Lowe's Precision Machining Loval Order of the Moose-Ithaca. NY Lodge 666 LR Cannon Enterprises LSI Logic LSI, Inc. LSU Robotics Research Laboratory Dr. Hong Bin Lu & Hui Jiang Luck Stone Corporation Tom Ludorf Lufkin Industries Luminary Micro Luminex Lutron Electronics, Inc LXE M&K Metal Co. MAC. S.A. Machine Medic Mack Tool Engineering Mack Trucks, Inc. Mackay Manufacturing MAES Magellan Architects Magic Wand Car Wash Magma Engineering Co. Magna Automotive Seating MAIN Manufacturing Maine State Credit Union Manassas Next Manhattan College Manhattan College School Of Engineering Mantz Automation Marathon Mariani's Inn & Restaurant

Mar-Lee Companies Marguette University Marquette University College of Engineering Martha Holden Jennings Foundation Martin's Machine Shop Marty's Bag Works Marvel Manufacturing Company Marvin Windows Mass Bay Engineering Mass Precision Master Graphic Printing Company Matson Matsuo Takabuki Maui Economic and Development Board (MEDB) Maui Electric Co., Ltd. May Technology and Manufacturing Mayo Clinic Caroline Mavo Maytag Aircraft Corporation MB & R Engineering Inc. MBDA Missile Systems McCarter Welding McCarthy Tetrault McCasland Foundation McCormick Family Foundation John McDermott Family Weldon McDonald McElroy Manufacturing The McGraw-Hill Companies McGuckin Hardware Store McHale Creative McInerny Foundation McKesson Corp. MCL Machine - Tools

McMahon Foundation McNeil Consumer and Specialty Pharmaceuticals McQ Inc. MDA Robotics MDM Architects Mead Johnson Nutritionals Meadows Manufacturing Mechanical Inc. Mecklenberg Electric Co-operative Medallion Medical Device Solutions Medtronic Inc. Meggitt Training Systems US MEI Meir Shamir Meland Lumber Melfred Borzall Mellon Memorial Robotics Booster Club Mendon Foundation Mentor Graphics Mentor Search Mercedes Benz Research and Development North America Merchants' Choice Card Services of Texas Merck Mercury Computer Systems Inc. Mercury Marine Meriden Board Of Education Meridian Services Merovan Office Center Metal Casting Technology The Metal Store



Former President George H. W. Bush



## 5 igodot5

Metal Supermarkets

Metal Tech

Metalaser

metapurple Ltd. Metro Sports Association Mexican American Engineers and Scientists Fred Mever MGS Machine Miami University MIC Construction Michael & Margaret Salvador Michelin Michigan Advanced Robotics Competition Michigan State University Students Michigan Tech Michigan Technological University Mickey Clagg Micro Analysis MicroAssembly Tech Microchip Microchip Technology, Inc Micron Technology Foundation, Inc. Micron Technology, Inc. Micron Technology Virginia **Microsoft Corporation** Microsoft Israel R&D Midland Kiwanis Mid-Michigan Robotics Alliance Midrex Mid-States Aluminum Foundation Midway Machine Technologies Midwest Fluid Power Midwest Research Institute Mike Dininny Mike Hickey Mike's Home Repair Mililani High School Science Learning Center Milken Family Foundation Miller Bearings and Motion Systems Miller Environmental Miller Place PTO Milwaukee Area Technical College Milwaukee Rotary Milwaukee School of Engineering Milwaukee SPE Min Plastics mindsensors.com Mine LIFELINE LLC Mingo Career and Technical Center Minnesota West Community & Technical College Minnesota Wire And Cable Minster Machine Miramar College Mishawak Sheet Metal Mishimoto Mississippi Power Company MIT

Mitchell Academy of Science and Technology MITEO. Mitutoyo Corp. Mobile Air Transport Modern Industries Modern Machining Co Modern Metalcraft Modiin Municipality Mohave Community College Monarch Instrument Monroe Aluminum Monroeville Area Chamber of Commerce Monsanto Monster Cable Montclair Society of Engineers Monterey Bay Aquarium Research Institute Moog Aircraft Hershel Mooney Moraine Park Technical College Morehouse Engineering Morgan State University Morris Machine Morris South The Morse Group George & Julie Mosher Motorola Foundation Motorola, Inc. Motus Mount Dora Lions Club The Mountain Apple Company MP Robotics Boosters MPC MSC Industrial Supply Co. MSI. General **MSOE** Mt. Dora Community Trust ΜΤΔ MTA-NYC Transit Authority MTC MTS Corp. Mueller Constructio Mueller Industries Mullins Repair Multiple Reality Paintball Multi-Talent Resource Center Municipio de Queretaro M.J. Murdock Charitable Trust Mustang Metal Mustangs on the Move Mutant Robots MvLaptopGPS New York State Senator Diane J. Savino NACMF (National Action Council for Minorities in Engineering) NAEA Energy Massachusetts, LLC The Nakamura Family

Charles Nakoa III Nanakuli PTSA Narberth Curves NASA NASA Ames Research Center NASA Dryden Flight Research NASA Glenn Research Center NASA Glenn Research Center External Programs NASA Goddard Space Flight Center NASA Headquarters NASA Johnson Space Center NASA JPL NASA Kennedy Space Center NASA Langley Research Center NASA Launch Services Program NASA Robotics Education FIRST Sponsorship Program NASA Stennis Space Center National- A Unit of Kimball International National Academy Foundation National Armiture National Auto Sales National Grid National Guard National Highway Traffic Safety Administration National Instruments National Job Corps National Science Foundation National Starch & Chemical Company NAV, LLC Naval Post Graduate School Naval Research Laboratory Naval Surface Warfare Center Carderock Division (NSWCD) NAVSEA Detachment Pacific NAVSFA Undersea Warfare Center NCK Software NCSU College of Engineering NDIA NEC Neff Press **Neighbors Empowering Youth** Nemecek Interiors Nerac, Inc. Netafim Netzer Metalcraft The Neurosciences Institute NevadaRedimix New Braunfels Communications, Inc. New Dominion Oil New Hampshire Ball Bearing New Hampshire Technical Institute New Jersey Education Association (NJEA) New Jersey Institute of Technology (NJIT) New London Precision Instruments. Inc. New Market Corporation

New World Associates

Newark Public Schools

NewTown Solutions

NGC Industries Inc.

Nick's Pizzeria

Niwot Florist

Nighthawk Radiology

NH Charitable Foundation

NJIT. Newark Public Schools

Bureau of Investigation)

NKCBI (North Kansas Citv

Noble First State Bank

Noble Investment Group

Nord Family Foundation

The Nordam Group

Nordson Corporation

Norfolk Navy Shipyard

North American Machine Works

Nordson-Asymtek

Noble Hardware

Noble Solutions

Nonin Medical

Noblis

Noraren

Nortel

Newtoc Media

Nexan

NGC

NIC

Nike

New York City College of Technology

New York State Senator Andrew Lanza

New York Container Terminal

New York Air Brake



North Carolina A&T State University North County Yamaha North Dakota Space Grant Consortium North Eastern Michigan Industrial Association North Fork Sanitation North Shore Hanapa'a Club North Shore News North State Storage Northeast Pennsylvania Tech Prep Consortium Northeast Utilities Northeastern State University Northeastern University Northern Arizona University Northern Virginia Community College: Manassas Campus Northland Area FCU Northland Foundation NORTHROCK INDUSTRIES.INC Northrop Grumman Corporation Northrop Grumman Newport News Shipbuilding Northrop Grumman Ship Systems Northrop Grumman Shipbuilding Northrop Grumman Space Technology Northrop Grumman Technical Services Northrop Grumman, NASA Sounding Rocket **Operations Contract** Northwest Vista College Norwich Glass Norwich Pharmaceuticals Norwich University David Crawford School of Engineering Notre Dame NOVA

Novartis Noxsel-Waddell Foundation NPCrobotics.com NRG Engineering NRP-Jones NSBE-AEDC Nu Products Seasoning NuStep, Inc. The Nutty Hawaiian Nuvation NVISIA NXP NYC Councilman James Oddo NYC Transit Nypro Inc. **Oakland Community College** Oceaneering Oceaneering Space Systems Oceanit **Octopus Enterprises** ODL. INC. **OEM Controls OEM Surplus Inc.** Oerlikon Ohio State University 0.J. Mann Electric Services, Inc. Okada Trucking, Inc. **OKC Life Member Pioneer Club** Oklahoma College of Construction Oklahoma Education Enhancement Foundation Oklahoma Educators Credit Union Oklahoma Electric Coop Oklahoma State Department of Education Oklahoma State University

#### "What better could you do than spend nights and weekends building robots with kids?"

Bob Schafer Engineered Automation Systems, Inc., FRC "Robo-Dawgs" mentor

> Oklahoma State University College of Engineering (CEAT) Old Point National Bank Olin College Olson Plastics Olympus America Inc. OMAX **Omnova Solutions Foundation** ON Semiconductor, Inc. On The Mark, Inc. One Point Inc. OneLegacy Ontario Centres of Excellence Ontario Power Generation Operational Test Command U.S. Army **OPGAL OPTRONIC INDUSTRIES** Optimist Club Optimist Club of Oakville **Optimist Club of Sacramento** Optimist Club of West Branch Opus **Orbital Sciences Orbital Technologies** Oregon Hawks Booster Club Oregon Rotary Club **Oregon State University** Orion Computing Ortho-Clinical Diagnostics, Inc. (a Johnson & Johnson Company) Orthopaedic Hospital of Los Angeles Osborne Concrete Company and John D Osborne Trucking Inc. OSHEAN Oshkosh Corp. 0.01

OSPI Osram-Svlvania OSU College of Engineering, Architecture & Technology OSU FIRST Othon Engineering Otis Elevator Company (a United Technologies Company) OU College of Engineering **OUR Credit Union Our Proud Grandmas** Outback Manufacturing Owens Corning Technology Center Oyster Creek Rotary Club P & G P F Development Inc. P&G P.A.S.T. Pacific Coast Metal Pacific Gas & Electric Pacific Geotechnical Engineers, Inc. Pacific Precision Pacific ScientificDanaher Motion Pacific Steele Palisade Bank Palmyra Area Education Foundation Richard W. Panek, DDS Papa John's Pizza Co. Paragon Technologies Parent Association of The Bronx High School of Science Parents of Bellarmine Robotics Parents of QCHS Robotics Parker The Parker Group Parker-Hannifin Parker Intellectual Property Law Firm, PLC Parker Pneutronics Parkrose Hardware Parkway Electric Parsons Partnership Alliance Pasco Scientific Patrick Henry Community College Patrick Metals Patriots Technology Training Center The Patuxent Partnership Pax-Sun Engineering Paz PC Brokers PDI Dreamworks Peak Plastics Pearl Development Pearl Harbor Naval Shipyard Pearl Harbor Naval Shipvard & IMF Pearson Packaging Systems Pedron's Storage Co. Peer Consortium at JTCC

PEER Tech Prep Consortium Pegasus, Inc. Pelco Pelco Products, Inc Pelco Structural LLC Pender Brothers Peninsula Education Foundation Penn State Electro-Optics The Pentair Foundation Pentair Water PENTECH The People of Newaygo County PEPCO Pepin Manufacturing, Inc **PEPSI** Americas Perceptronics Solutions Perkin's Grant Pershing Square Capital Management Pershing Square Foundation Pershing Square. Peterborough Game and Hobby Petersen & Associates Peterson Aluminum Peterson Manufacturing PFG Optics Pfizer Inc. PGP Corporation Phadia Pharma Trust Phat Family PHD Inc. Lew & Linda Phillips Phillips Welding PHM Community Phoenix Masonic Lodge PHTool PIAB Picatinny Arsenal Picayune Eye Clinic Pickett Enterprises Piedmont Metal Fabricators Inc. Piedmont Technical College **Piedmont Triad Partnership** Piedmont Triad Partnershin-WIRED Anita Pinkham Pioneer Pioneer Electronics Pirelli Pitango Pitney Bowes Pittsburgh Business Radio Pizza Hut, Inc. PJM Interconnection Planet Hot Rod Planning Systems Inc. Plascore



Professional Plastics

# SPONSORS



R & E Racing R&D Precision R&D Tool and Engineering R.E.Y. Engineers, Inc R.M. Towill Corp. Rafael Rainbow Caffe Rajswasser-Flaherty Family Ralph R Willis Career & Technical Center Ramat Gan Municipality Randv Wood Ranesco Ranken Technical College Rapid4Mation Rappahannock Electric Cooperative Rashi Foundation RAUK Enterprises Rayconnect Ravtheon Company Raytheon Company - Integrated Defense Systems Ravtheon IDS Raytheon Missile Systems, Tucson Ravtheon NCS Raytheon Space and Airborne Systems **RBC** Dominion Securities RCB Bank RD Tool Rebar Setters, Inc. Recapture Metals Recticel North America Inc. Red Jacket Rotary Reeves Automation Refurbished Equipment Marketplace Region One ESC GEAR UP

Rehbein Enterprises RE/MAX Renaissance Man Rensselaer Polytechnic Institute Request Foods **Research In Motion** Reseda Women's Club RETLIF TESTING LABORATORIES **RF Micro Devices** Rhodia **RI Economic Development Corporation Rice University** Richard & Susan Smith Family Foundation **Richard Chevrolet** Richland County School District #1 Richner Air Conditioning **Riddell Sheet Metal Ride and Show Engineering RIFF Company, Inc Ringside Creative** Rinker Materials **Rio Tinto Energy America** Rite of Passage **Rite Solutions Riverview Community Bank RKF** Consulting RM Systems Integrators Roadrunner Mobile Truck Repair Rob Healev **Robbinsville Education Foundation** Robert and Donna Draney **Robert Bosch Corporation** Robert Bosch, LLC Robert Wood Johnson Foundation Roberts Tool Co. Roberts Weslevan College Robin Hobb The Robobees **Robotics Engineering Excellence ROC & Friends of Robotics** Roche Carolina **Rockwell Automation** Rockwell Collins Rocky Mountain Space Grant Consortium Rodney Sweet Chiropractic Care Roque Engineering Rohm & Haas Company Rolla Alumni of Beta Sigma Psi Aaron Rollison Memorial Fund Rolls-Royce Corporation RoMan Manufacturing Ronald C. Crane ROP Contra Costa Co, CA Rosebank Properties Rosendale Technologies, Inc. **Rossbacher Insurance Service** Rotary Club of Agincourt

Rotary International Rotor Clip Company, Inc. Roush Honda Rowe Engineering Royal King, Inc. RPI RTE Technologies, Inc. Rugby Eagles Aerie #3834 Rugby Truck Bodies & Equipment Rugby Welding & Machine Ruskins Russ' True Value Senator Greg & Betty Ryberg Ryerson S.A.M.E. S.T.O.P. of New Jersev Sachem Robotics Team 263 Booster Club Sacta Rashi Foundation Sadoff and Rudoy SAE NW Section The Safa Center, New Wave Holistic Health Center Safe Operation Service, Inc. Sage Rutty Financial SAIC Saina St. Catharines Corrugated Containers St. Jude Medical, Inc. St. Mildred's Lightbourn Parent Association St. Paul Machine & Design, Inc. St. Tammany Parish School Board Salem County Community College Salt River Project Sam O. Hirota Engineers & Surveyors Sams Club Samson Oil and Gas Samuel San Antonio College San Antonio TAME San Diego College, Career & Technical Education The San Diego County Fair San Diego County Sheriff's Department San Diego Downtown Rotary Club San Diego East County Economic Development Council San Diego High Foundation San Diego Turf San Dieguito Academy Foundation San Jose Job Corps San Marino High School PTSA San Ramon Valley Education Foundation Sanders Sound Systems Sandvik, Inc. Santa Barbara Applied Research Santa Barbara County ROP Santa Clara University Santee Cooper

SAPPI Paper Company Sapsis Rigging Inc Saratoga Bomanite Sarcos Ravtheon Sartomer Corporation Savannah River Nuclear Solutions Scaled Composites Schaeffler Group Schenck Rotec Schilling Robotics Schneider Electric Company The Schneider Family Foundation School Construction Consultants Incorporated School District of Kansas City Missouri School District of Oconee County Schoolhouse Foundation of Paola David Schrager Schupan Aluminum Science '82 and '78 The Science and Technology Group Science Applications International Corp. (SAIC) - Ft. Benning Science Education Institute Sci-Tek Scitor Corporation Scotiabank Screen Designs, Inc. ScriptPro Seabotix SEAD architecture Seagate Corp. Seagate Technology Security Service Federal Credit Union Seemann Composites Segway of Richmond Segway of Toledo SEMI Sentrinsic SES-Americom Seven Studios Seward County Community Area Technical School Seward Screw Shakespeare Company Sharbell Development Corp. Shawnee Mission Education Foundation Shell SHELL Shell International Technology, Inc. Jerry Shelton Sherbrooke University Sheridan College Sheridan Tent and Awning Sheridan Winnelson Sherrard Kuzz LLP Shiflett Transport Service Shigeru Tsubota

Shinano Kenshi Corporation Shining Rock LLC Shirt Shack Gen, Robert M, Shoemaker Short Pump Town Center Show Me Controls ShowBest Fixture Inc Si Se Puede Siemens Siemens Corporation Siemens Energy & Automation Siemens Mobility Siemens PLM Software Siemon Company Sierra College Sierra Lobo, Inc. Sierra Radio Systems Sign Depot Sign-A-Rama El Segundo Sians Now Sikorsky Aircraft Corporation (a United Technologies Company) Silicon Valley Sil-Pro Silva & Cia. Simplot SIMREX Corporation Sims Metal Management Simventions, Inc. Singularity Clark LP SJ Automation SkillStorm Inc SlipNOT Metal Safety Flooring SMART Consortium smartsearch SMC Corporation of America SME SMED Gravatai The Smith Family Foundation Smith-Debnam Smiths Medical Smurfit Stone Container Corp S.M.W. Tooling Smyth County School Board Snap-on Snap-on Tools Snapple Society of American Military Engineers Society of Hispanic Engineers and Science Students (SHESS) Society of Hispanic Professional Engineers Society of Mexican American Engineers and Scientists (MAES) Society of Professional Engineering Employees in Aerospace Society of Women Engineers

Shiloh Industries

Society of Women Engineers, Sacramento Valley Section Sofinnova Ventures Solano Community Foundation Solano County Office of Education Solano County Office of Education ROP Solgal Solidus Technical Solutions SolidWorks Corp. Solutions for Automation Sonic EDM Sonic Tools Sonny's Enterprises. The Car Wash Factory Sony Electronics South Bend Mayor's After School Program South Carolina Department of Education South Central Michigan Works South Jersev Robotics, Inc Southeastern Louisiana University Southern Christian Leadership Council Southern Electronics Southern Engineering Services Southern Expediting Inc. Southern Specialties Southfield Machining Inc. Southold Agway Southold PBA Southwest Research Institute Southwest Windpower SpaceTEC Spatial Corp. **SPAWAR Center Pacific** Special Products and Manufacturing **Special Technical Services** Specialty's Our Name SPECO Tile & Marble, Inc. SPEEA Speranza Brickworks, Inc. Spidertel **Spirent Communications** Spirit Aerosystems Spokane Regional Chamber of Commerce Sporos Computers Sport Performance Touch Up Specialist Spring Creek Coal Mine Sprint Sprint Corporation Square D - Schneider Electric SRI International SRT-STEM Center SSvD Staccato Communications Stafford County Economic Development Authority Stahlin Enclosures Stanley Associates Stanley Works

William J. Stanley, Jr

Starbucks Corporation State Electric State Farm Insurance State of Oklahoma State Street Investments The Staten Island Foundation Steaming Bean LLC Steel Fab. Inc. Steelcase Steelcase Foundation Steele Rubber Products Stellar Solutions Stennis Space Center STEPS Sterling Tool, Inc. Steurnol & McLaren Funeral Home Steve's Wholesale Tools The Stewart Family Stewart Systems Stich in Time Stillwater Designs (Kicker) Stock Drive Products-Sterling Instrument Stoody Industrial and Welding Supplies Inc. Storage-R-Us Streets, Inc. Mechanical Contractors StreetSmart Digital Solutions, LLC Structures Inc. Strvker Orthopedics Stuyvesant High School Alumni Association Subaru Keith M. Sullivan Foundation Sultans of Türkive & The Fikret Yuksel Foundation Sun Chemical Corporation Sun Hydraulics Corporation Sunrise of East Meadow Sunrise Rotary Sunsource Hydraulic Service and Repair Superior Industries Supervisor Covington Surf n Sea Surface Combat Systems Center SurModics Inc. Sussex Ace Hardware Swiffer SWIFT ATLANTA Swingen Construction Symantec Corporation Symphony Service Corporation Synaptics Syngenta Synnex Corporation Tableau Software Taek Force, Inc. TAH Enterprises Talleres Lucas **Tallmadge Foundation** TAMA Tulsa Area Manufacturers

Association Tamerack Petroleum Inc. Tampa Bay Steel Tampa Brass & Aluminum **Tanger Outlet Center** ΤΔΤ TATA Built Technology Taylor Products **TCC** International TCI TD Ameritrade **Teague Family Foundation** Team 1902 Team Boeing Team Corp Team Elmer's Team Vision, LLC Team221 LLC TeamBank N.A. Tech Collective Tech Empower Techcare, President & Owner Technique Inc. TechnOdvssev Technology Department Southwestern Oklahoma State University Technology Garden TechSmith Techworks Tecla Company, Inc **TECO** pneumatic Ted's Bakery Teion Ranch Tel Aviv Municipality Teledvne

Telefónica CTC Chile Teleplus Consulting, Inc. Telford Technologies Temple Inland -Bogalusa Tenaris Algoma Tubes Teradata Corporation Terminal Supply Terra Tech Engineering Terradata Corporation Terry's Machine Terumo Cardiovascular Systems **Tesoro Refining Companies TESSCO** Technologies Texas Direct Auto The Texas High School Project Fund of Communities Foundation of Texas Texas Institute for Educational Robotics Texas Instruments Incorporated Texas Tech University Textron Corporation Textron Marine & Land Textron Systems TGM Robotic Mentors Thales Group That Computer Place Thayer School of Engineering at Dartmouth College Theorem, Inc. ThermoGenesis Thermopylae Sciences & Technology THHA THHS PTA Thomas Nelson Community College Thomson-Reuters Thor Labs



all the technology I use every day. I understand all the work they have put into iPods and cell phones. We definitely feel that it's important to get more kids involved in science and technology. Kids who have the capability to invent and play with the materials and tinker around ... are going to have the knowledge to invent the things that can make the world a better place."

#### Caitlin Mackey Torrey Pines High School freshman and FTC "Einstein's Daughters" team member

## G n SN igodot5

Thrivent Financial Thrivent Financial for Lutherans Thunder Tower Harley Davidson ThunderBots Tiger Enterprises Timberwolf Construction Time, Inc. The Timken Company Tire Warehouse Titan Inc. TKL TKL Products Corp. TMA Systems The Tobacco Commission Tonnard Mfg. Corp. Toronto District School Board Total Soccer Town & Country Group Town of Goderich Town of Middletown Townsend & Townsend Crew Towsontowne Rotary The Toy Shop Tovota Boshoku America Toyota Chula Vista Tovota of Nashua Toyota of Stuart Toyota Technical Center TQ Machining Trade Construction TransCOR Information Technologies Transform U Transformix Engineering Trans-matic Traverse Bay Area Intermediate School District Traverse City Products, Inc. Travis USD Treasure Island Importing Treasure Island Job Corps Trees Atlanta Triangle Mfg. Co. TRICE **Trident Technical College** Trillian Dental **Trimberger Family Foundation** Trinity Products Trio Hardware Triumph Fabrications Triumph Group Troops To Teachers **Trophy Robotics** TruCut Machine TrueStone Trumpf TRW Tshwane University of Technology Tube Methods

Tulane University Tulsa Talons Arena Football Turner Turner Broadcasting, Inc. TUV Rheinland Twin Oaks Garage TWISThink Tyco Electronics TYCO Electronics Foundation U.S. Army Research Laboratory U.S. Coast Guard Academy U.S. Cease Guard Alumni Association U.S. Coast Guard Foundation U.S. Engineering U.S. Marine Corps U.S. Steel UAW UAW 686 UAW Local 14 The UCSD Machine Perception Laboratory UH CoE, Mechanical Engineering Dept. UH School of Engineering UH SOEST HIG&P UH SOEST HM&RG UMentor FIRST UMI Umicore UMKC School of Education UMOJA UND Space Grant Consortium Under Tech, Inc. Underwriters Laboratories Inc. UNI College of Natural Sciences Unilever Union Metal United States Navy UNITE with Virgil Brackins United Electric Controls United Launch Alliance United Space Alliance United States Air Force Space Command United States ARMY United States Army Corps of Engineers United States Army IEWTD United States Army Night Vision and Electronic Sensors Directorate United States Army Research Laboratory United States Army TARDEC United States Naval Academy United Technologies Corporation (UTC) United Technologies Research Center Unitronics Unity Surgical Center Universal Machining Services Universidad Andres Bello Universidad del Valle de Mexico-Campus Queretaro

University of Bridgeport The University of California at San Diego University of California, Los Angeles-MESA University of Denver University of Detroit Mercy University of Hartford University of Hawaii College of Engineering University of Hawaii Physics Department-Melvin Matsunaga University of Hawaii-KCC University of Hawaii-Manoa, College of Engineering University of Hawaii Maui Community College University of Illinois Kane County Extension University of Maine University of Michigan University of Michigan College of Engineering University of Minnesota University of Minnesota Foundation University of Minnesota, Duluth University of Minnesota-Twin Cities University of Nevada, Las Vegas University of New Hampshire University of North Dakota University of Oklahoma University of Ottawa University of Pennsylvania Engineering School University of Rhode Island University of South Carolina University of Texas at Austin University of Texas at Brownsville in partnership with Texas Southmost College University of Texas at Tyler University of Toronto University of Toronto Engineering Faculty University of Tulsa University of Utah University of Virginia University of West Florida University of Wisconsin-Madison Unlimited Construction Upper Freehold Regional School District Board of Education URS Electronics. Inc. Urschel Laboratories Incorporated US Case USC USC College of Engineering USC-MESA UT Electronic Controls James R. Utaski 🔳 UTC Fire and Security (a United Technologies Company)

Université de Sherbrooke



UTC Power (a United Technologies Company) UTI UW Madison Society of Women Engineers UW-Platteville UWUA Local 223 Valero Valero Refining Companies Valley Craft Vallev Precision Products Valve Software Van Boerum & Frank Engineering Vane Brothers Vanguard Industry Vantage Point Asset Solutions VDS Vecna Technologies, Inc. Vector CANtech Vectrix Corporation VEI Systems, LLC Velocitv11 VER Tech Elevator Verde Valley Robotics, Inc. Vergason Verizon Communications Inc. Verizon Foundation Verizon Foundation Volunteer Incentive Program Vermont Technical College Vertec Tool, Inc Vessel Statistics VEXrobotics.com VFW Post 961 ViaSat Viastore Systems, Inc.

Viatalk Vic Canever Chevrolet Vicarious Visions VICO Manufacturing Steve & Kay Victor Videx Corporation Viking Plastics Inc. Villa's Tacos and Seafood Restaurant Viper Northwest Virginia Blower Co. Virginia Commonwealth University Virginia Groundwater Virginia National Guard Virginia Tech School of Education Virginia Tobacco Commission Vista West Engineering Vitron Manufacturing Vivid-Hosting.net VMD Systems Integrators VoiceMetrix Volvo Motor Graders Vulcan Spring W & K Automotive W.M. Keck Observatory WA OSPI Wade Trim & Associates WAFER POWER Technology Wagstaff Waialua Federal Credit Union Waialua High School Foundation Waialua Lions Club Waialua Plumbing Wainewright Consulting Ltd Jim and Jane Walke The Wallace Foundation

to work with."

Wallace-Tozier Wal-Mart 242 Wal-Mart Stores, Inc. The Walt Disney Company Walt Disney Imagineering Walt Disney World Company Walter P. Moore Wangler's Welding Warden Fluid Dynamics Warthen Family Warwick Mills Washington Metropolitan Area Transit Authority Washington OSPI Washington Safety Management Washington State Office of Superintendent of Public Instruction Washington State Robotics Grant Washtenaw Community College Waste Management Watchung Hills Technology Association Waterjet Cutting of Indiana WaterJet Tech. Inc. The Thomas W. Wathen Foundation Waukesha Electric Wavland Public Schools Foundation Wayside Deli Weatherguard Metal The Weatherly Institute for Robotics and Engineering Weber Electric WebGuy Communications Websites by Leslie The Wee Family The Wee-Thompson Family

"It was a lot of fun. We learned about building robots and had to figure out ways to make it work. If we tried something and it didn't work, we had to find other things

> Dalton Hedgepeth FLL "Team Chaos" member

Weisen Inc. Weld Tech Weldall Manufacturing Wentworth Institute of Technology West Branch Machine West Branch Regional Medical Center West Islip Robotics Booster Club, Inc. West Linn Wilsonville School District West Machine Works, Inc. West Valley Amateur Radio Club West Virginia Department of Adult-Technical Programs West Virginia Department of Career and Technical Education West Virginia High Tech Consortium West Virginia University West Windsor-Plainsboro Education Foundation Western Colorado Community Foundation Western Digital Western Michigan University The Westfield Group Westhampton Glass and Metal Westhampton True Value Hardware Westlake Ace Hardware Josh Weston Judy and Josh A Weston Wet Labs John Wetula Weyerhauser Wham Engineering Services The White House Restaurant White-Rodgers Whitestone Capital LLC

Aneta Whitetail

Wiesbaden Boosters Club Wiesbaden Spouses Club Wilco Machine and Fab Wildbit Wilkinson Woodworking Williams and Fudge The Williams Companies Foundation, Inc Williams Corporation Williams Energy Williams Engineering Williams Tooling Williams, Adley & Company, LLP The Williamson Free School Willow Glen Foundation Wilson Electric Windward School Robotics WIT Witco Inc. WizardOfAz Wolverine Women in Technology Wood True Value Hardware The Woodlands College Park High School Woodside High School Foundation Paul Woodul Woodward Governor Woodward MPC Worcester Polytechnic Institute (WPI) World Class Prototypes WorlevParsons Ltd. Woven Metal Products Wrabacon, Inc. WRT Corporation www.sevaa.com www.TheDataLoggerStore.com Wyoming Space Grant Consortium XCel Hawaii Xerox Corporation Xilinx Corp. Xlinx, Inc. Xvratex Yale University YESCo Young Brothers Young Engineers Support Program Youngstown State University Youth Technology Academy of Cuyahoga Community College **Ypsilanti Public Schools Foundation** Z Manufacturing Inc Ronald L. Zarrella 🗖 Zazzle ZelTech Zenoss Leslie Zola Science Scholarship

FIRST is supported by a strong network of corporations, foundations. educational and professional institutions, and individuals This support, including financial contributions. in-kind donations. employee volunteerism and mentoring. provides vital resources for FIRST organizational growth, and is a testimony to the value found in FIRST's programs.

FIRST greatly appreciates the support of its sponsors, suppliers, and contributors!



## Financials

Throughout fiscal year 2008-2009, FIRST provided consistently high quality experiences to its rapidly growing number of teams across all programs. Donations reached record levels as many individuals, businesses, and foundations continued or increased their support, and new sponsors joined FIRST – a sign of how essential its science, technology, engineering, and math (STEM) programs are to the future.

90% of funds spent this year were for team services and program growth; general and administrative expenses comprised 8% and fundraising costs were only 2%, reflecting a policy of applying the maximum amount of funds possible to directly benefit teams. FIRST has consistently maximized resources available to individual teams by carefully balancing public need with funding from many sources

There were no audit findings or questioned costs in fiscal 2008-2009 and FIRST received an ungualified opinion from its auditors, Berry, Dunn, McNeil & Parker, The Office of Management and Budget's Circular A-133 audit of *FIRST*'s federal grant awards had no findings or questioned costs and *FIRST* continues to be gualified as a "low-risk" auditee.

\$ 22,268,606	\$18,270,302
19,318,283	14,834,301
11,090,135 8,228,148	10,263,902 4,570,399
2 050 323	3,436,00 <sup>-</sup>
22,268,606	18,270,302
4,134,969	4,139,427
7,785,144	2,942,890
5,400,000	7,799,71
\$ / 0/8 /03	\$ 3.388.27
\$ 826,233	\$ 1,584,164
319,968	319,969
506,265	1,264,19
34,180,722	30,673,562
348,288	293,148
160,420	149.37
	85,749 3.273.37
	1,004,250
3,714,529	3,025,709
25,259,844	22,841,964
34,686,987	31,937,757
2,231,912	1,321,005
428,360	839,534
175.629	172,400
	\$ 14,461,818 15,143,000
	ф 14 401 010
	428,360 2,231,912 34,686,987 25,259,844 3,714,529 1,169,372 145,855 3,382,414 160,420 348,288 34,180,722 506,265 319,968 \$ 826,233 \$ 4,948,493 5,400,000 7,785,144 4,134,969 22,268,606 2,950,323 11,090,135 8,228,148 19,318,283

The financial information presented here is condensed and does not include the value of all donated services and materials. Audited financial statements (AFS) are available on the website at WWW.USFIRST.ORG under "ABOUT US/Annual Report & Financials." Certain amounts reported for 2008 have been restated. For details, please refer to the accompanying notes which are an integral part of the AFS, at the above Web address.



Board of Directors John E. Abele, FIRST Chairman Founder Chairman, Retired Boston Scientific Corporation

Partner Whitestone Capital, LLC

General Partner 1848 Associates

President FIRST

President

Ursula M. Burns Chief Executive Officer Xerox Corporation

François J. Castaing President Castaing & Associates

Deborah L. Grubbe, P. E. C Eng. Owner

Walter P. Havenstein Chief Executive Officer (SAIC)

Gordon J. Homer President Gordon J. Homer Advisory Services

Elliott Masie Chair

Susie Mathieu Partner Spirit Hockey LLC

Sheri McCoy Johnson & Johnson

Championship photography by Adriana Groisman. Jr.FLL photography by Marco Ciavolino. Other photography courtesy of students, volunteers, and sponsors.



# FIRST. Leadership

James R. Utaski, FIRST Vice Chairman

Robert M. Tuttle, FIRST Treasurer

Paul R. Gudonis, FIRST Secretary

Dean L. Kamen, FIRST Founder

DEKA Research & Development Corporation

**Operations & Safety Solutions, LLC** 

Science Applications and International Corporation

The Learning CONSORTIUM at the MASIE Center

Worldwide Chairman, Pharmaceuticals

Robert L. Parkinson, Jr. Chairman & CEO Baxter International. Inc.

Dennis A. Roberson Vice Provost, New Initiatives Illinois Institute of Technology

Steve Sanghi President & CEO, Chairman of the Board Microchip Technology Inc.

Thomas G. Stephens Vice Chairman, Global Product Development General Motors

Ronald L. Zarrella Chairman Emeritus Bausch & Lomb Incorporated

Honorary Directors Paul A. Allaire FIRST Chairman: 1995-2000 Chairman & CEO, Retired

Xerox Corporation J.T. Battenberg III Chairman & CEO. Retired Delphi Corporation

L. John Doerr III Partner Kleiner Perkins Caufield & Byers

Garv L. Tooker Chairman of the Board, Retired Motorola

#### Executive Advisory Board

Dr. Woodie Flowers FIRST Executive Advisory Board Chairman Pappalardo Professor Emeritus of Mechanical Engineering

Massachusetts Institute of Technology

Ray Almgren Vice President, Product Marketing and Academic Relations National Instruments

Carl Bass President & CEO Autodesk. Inc.

Mark Breadner Vice Principal Woburn Collegiate Institute

Nick Caporella Chairman & CEO National Beverage Corp.

Cosema Crawford Senior Vice President, US Engineering The Louis Berger Group, Inc.

Michael Dubno Founder & Partner Gadgetoff

Peter Gould Vice President, Engineering & Chief Engineer, Space and Airborne Systems Raytheon Company

Greg Hale Chief Safety Officer, Vice President, Safety, Accessibility & Advanced Technology Walt Disney Parks & Resorts

Erik Halleus President & CEO EuroScandia Enterprises

Michael Heffron President, Electronics, Intelligence & Support BAE Systems, Inc.

James Heppelmann President & COO Parametric Technology Corporation

Marc Hodosh President TEDMED

Fred Hubacker Executive Director Conway Mackenzie Dunleavy

Kent H. Hughes Director of Science, Technology, America and The Global Economy Woodrow Wilson International Center for Scholars Dr. Shirley Ann Jackson President Rensselaer Polytechnic Institute

Kield Kirk Kristiansen **Owner & Vice Chairman** LEGO Group

Robert Kruse President E V Consulting, LLC

Gordon Lankton Chairman Nypro Inc.

David Laverv Program Executive for Solar System Exploration NASA

Paul Lazarus President White Dwarf Productions

Rev Moré Senior Vice President, Chief Quality Officer. Retired Motorola

Dr. William P. Murphy, Jr. Founder

Cordis Corporation

Ceci Neumann Attorney

Dr. Roland Schmitt President Emeritus Rensselaer Polytechnic Institute

Jeanne Shaheen U.S. Senator & Former Governor New Hampshire

Josh S. Weston Honorary Chairman Automatic Data Processing, Inc.

Captain Vincent Wilczynski, Ph.D. Dean of Engineering U.S. Coast Guard Academy



"...to transform our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology leaders." Dean Kamen, Founder

...to inspire young people to be science and technology leaders, by engaging them in exciting mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

...FIRST participants are 50% more likely to attend college, twice as likely to go on to major in science or engineering, and three times as likely to major specifically in engineering.

200 Bedford Street ■ Manchester, NH 03101 8 0 0 . 8 7 1 . 8 3 2 6 ■ 6 0 3 . 6 6 6 . 3 9 0 6



FIRST<sup>®</sup>, the FIRST<sup>®</sup> logo, FIRST<sup>®</sup> Robotics Competition, FRC<sup>®</sup>, FIRST<sup>®</sup> Tech Challenge, and FTC<sup>®</sup> are registered trademarks, and LUNACY<sup>™</sup>, Coopertition<sup>™</sup>, and Gracious Professionalism<sup>™</sup> are common law trademarks, of the United States Foundation for Inspiration and Recognition of Science and Technology (US FIRST). LEGO<sup>®</sup> is a registered trademark of the LEGO Group. FIRST<sup>®</sup> LEGO<sup>®</sup> League, Junior FIRST<sup>®</sup> LEGO<sup>®</sup> League, and FLL<sup>®</sup> are jointly held trademarks of US FIRST and The LEGO Group. All other trademarks are the property of their respective owners. © 2010 US FIRST. All rights reserved.