Building a Community
2017 Annual Impact Report
The impact of FIRST® is bigger than STEM. We’re building a community — one where students feel inspired and empowered to channel their curiosity into the big ideas that will change the world.”

— Dean Kamen, Founder
Building a Community
2017 Annual Impact Report

It takes a pretty big village to raise a generation of young people who will go on to make our businesses healthier, our global economy stronger, and our society more resilient. FIRST® (For Inspiration and Recognition of Science and Technology) is this village. We are proud to connect students, educators, and professionals to a community where we can nurture, embrace, educate, and empower today’s youth as they chart their paths, while developing the science, technology, engineering, and math (STEM) skills they will need to be successful in any career.

As a not-for-profit organization, we rely on our expansive network of volunteers and leaders in business, government, media, education, and entertainment to carry out our mission, and we couldn’t be more grateful. With their tireless support, we help our students become well-rounded adults who can persevere in an ever-changing workforce.

Our innovative, inspirational community is millions of people strong and growing every day. We meet in classrooms, in each other’s homes, in community centers, in makerspaces, and on social media all year round. We help each other solve problems, have fun, and challenge ourselves. Creating opportunities for connection and mentorship in an inclusive environment is integral to accomplishing our goal of inspiring innovation and leadership in young people.

The FIRST community has created a transformative movement.

The FIRST community has created a transformative movement, and we’re stronger than ever. Together, we span demographics, ages, races, and professions, but we’re brought together by a shared responsibility to affect and inspire a better world. FIRST is the community that’s building global, national, and local networks to not only inspire kids to pursue STEM education and careers, but to solve problems, drive innovation, and create positive change that benefits us all.

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Will you join us as we come together to build a better world?
Join the FIRST movement. Learn more at www.firstinspires.org.
A decade of verifiable data shows that exposing kids to fun, exciting FIRST programs builds 21st century work skills and greatly increases their motivation to seek education and careers in STEM fields. Three years of data from a rigorous longitudinal study of FIRST indicates that girls in FIRST are significantly more likely to have even greater gains in STEM than their peers or boys in FIRST.

ULTIMATE IMPACT 75%+ of FIRST Alumni are in a STEM field (student or professional)

Inspired to learn more? www.firstinspires.org/about/impact

STEM Exposure

**FIRST STUDENTS**
- 84% build the robot
- 88% work on robot design strategy
- 60% program/code
- 77% learn about STEM jobs
- 97% have FUN!

**GIRLS IN FIRST**
- 75% build the robot
- 89% work on robot design strategy
- 61% program/code
- 78% learn about STEM jobs
- 97% have FUN!

STEM Interest & Skills

**FIRST STUDENTS**
- 88% more interested in learning about STEM
- 88% better understand how STEM is used to solve real-world problems
- 98% increase teamwork skills
- 93% increase problem-solving skills
- 85% more interested in learning about STEM
- 92% better understand how STEM is used to solve real-world problems
- 99% increase teamwork skills
- 98% increase problem-solving skills
**FIRST STUDENTS**

- **86%** more interested in doing well in school
- **84%** more interested in jobs that use STEM

**GIRLS IN FIRST**

- **83%** motivated to take challenging math or science classes (FIRST Robotics Competition, FIRST Tech Challenge)
- **98%** embrace the importance of Coopertition, Gracious Professionalism
- **82%** more interested in jobs that use STEM (FIRST Robotics Competition, FIRST Tech Challenge)

**FIRST ALUMNI ARE**

- **1.8x** more likely to be very interested in computer science majors
- **2.3x** more likely to be very interested in engineering majors
- **3.9x** more likely to be very interested in robotics majors
- **2.3x** more likely to take an engineering course their freshman year

**FEMALE FIRST ALUMNAE**

- **3.1x** more likely to be very interested in majoring in computer science
- **3.2x** more likely to be very interested in majoring in engineering
- **5.1x** more likely to be very interested in majoring in robotics
- **3.4x** more likely to take an engineering course freshmen year

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Our programs build communities and relationships that have the power to change attitudes and upend preconceived notions.”
People often define communities as the towns or cities they call home, but as technology changes the way we live and do business, communities continue to cross geographic and physical borders. We’re connected with each other in-person and online. Communities are the foundation of our society, and we must continue to foster inclusive, strong, and well-resourced networks for ourselves and our children.

That’s where FIRST comes in. Our programs build communities and relationships that have the power to change attitudes and upend preconceived notions. Through FIRST, students acquire the personal and professional skills they’ll need for a lifetime of success, in the workforce and as well-rounded citizens of the world. Our programs provide welcoming, safe, and thought-provoking environments in which students from all walks of life can find knowledge, inspiration, and a sense of belonging – and discover themselves along the way.

FIRST is a movement, and our communities extend far beyond the brick and mortar: We’re more than a place, an event, a team, or a program. Mentors guide student experiences and get fulfillment from passing knowledge to the next generation. Alumni dedicate time to their former teams or those nearby, and maintain the lifelong friendships and connections formed through their FIRST experience. Volunteers and donors keep our community running, and sponsors build connections and pathways for students seeking experiences, internships, and careers both inside and outside STEM fields.

The power of the FIRST community transcends friendships and career prospects; it creates connections to inspire students who face barriers to education. In New York City, a public school district for students with special education needs is using FIRST® LEGO® League Jr. to give students their first chance to be part of a team, and they are exceeding all expectations (details on page 23). In Alberta, Canada, educators on remote First Nation reserves are using FIRST® Robotics Competition, FIRST® Tech Challenge, and FIRST® LEGO® League to provide professional development and distance learning opportunities to help students graduate (details on page 15).

We extend our most heartfelt thanks to those who give their time and resources to FIRST: Your support, time, and passion have made a difference for millions of kids worldwide. We’re proud to continue what you’ve helped build.

We hope our community and progress inspire you, and we invite you to join us – or grow your support – however you feel most passionate and able. The FIRST family is large, and growing, and much work remains; there are students worldwide in need of STEM education, access to mentorship, support networks, and more.

Become a mentor, sponsor a team, commit your company’s people and resources, or volunteer at a local FIRST event. Our kids deserve so much, and with your help, we can give it to them.

Will you help us grow our community?
Join the FIRST movement. Learn more at www.firstinspires.org.
Communities have a responsibility to help kids become good citizens and critical thinkers who can collaborate and respect each other. FIRST is uniquely positioned to meet these needs.”
Of all the qualities that set FIRST apart, I’m most proud of the community we’ve built. Our students, mentors, educators, sponsors, and supporters bring different backgrounds and experiences to the table. They open each other’s eyes to new opportunities and provide inspiration that lasts a lifetime. As a result, FIRST students and alumni are already impacting the economy and working to improve social issues. I can’t wait to see what they do next.

Communities have a responsibility to help kids become good citizens and critical thinkers who can collaborate and respect each other. FIRST is uniquely positioned to meet these needs.

- **Addressing inequality.** Seeing our programs reach students who haven’t had an opportunity to engage with a meaningful STEM learning opportunity inspires me. FIRST STEM Equity Community Innovation Grants are making more of these connections possible. For example, S.A.Y. Detroit Play Center – an after-school resource for disadvantaged youth – uses FIRST programs to provide a stable environment and STEM mentors, which students may otherwise lack (details on page 14).

- **Inspiring lifelong learners.** Our investment in longitudinal research continues to show that FIRST works – and the impact on students extends well beyond the classroom. Our growing alumni network knows this best. Many go on to volunteer with FIRST and generously give their time and talents in the communities they join.

- **Creating connections.** Teamwork and collaboration across organizations are key to building a tech-enabled community and a STEM-savvy workforce. I’m proud to see FIRST expanding its reach through new and revamped partnerships with other nonprofit organizations and industry leaders. Our partnerships with colleges and universities helped increase scholarship opportunities for FIRST alumni to more than $50 million available in 2017.

- **Developing thoughtful citizens.** Inspiring change and encouraging progress are shared responsibilities. FIRST is training its mentors, coaches, and volunteers to better support a culture of diversity and inclusion; translating key program materials to improve accessibility; and empowering kids to use their smarts for good.

As we work to reach our goals, FIRST must find creative ways to meet our community’s needs. For example, we executed our first-ever dual FIRST Championship, giving more students the opportunity to attend and make game-changing connections with our network – students like Fredele Burns, from a rural Navajo community in Utah, who attended with his FIRST® Robotics Competition team and a robot they built largely out of scrap metal. Fredele’s participation earned him a full-ride scholarship, bringing him closer to his dream of becoming a doctor.

To all FIRST mentors, volunteers, alumni, sponsors, donors, educators, and other supporters: Thank you for building a community that opens doors and provides lasting connections critical to helping students reach their full potential.

I believe more than ever that the FIRST community should be open and accessible to every student, regardless of location, demographic, or background. We all have a part to play to ensure every child has a foundation for success.

Let’s work together to give every child a brighter future.

Join the FIRST movement. Learn more at www.firstinspires.org.
UNITY is fundamental to FIRST. It is an anchor for the very large, very effective FIRST community.”

— Woodie Flowers, FIRST Distinguished Advisor
Fantastic Facts

1989
FIRST is founded to excite young people about science and technology

Gracious Professionalism®
“Respect for others, being a good sport, sharing what you’ve learned”

448,000
participants (ages 6-18)

Coopertition®
“Competing teams help and cooperate with each other”

17,000,000
hours donated by volunteers

230,000
mentor/coach/volunteer roles filled

50
U.S. States

85+
countries

~200
scholarship providers

200+
Fortune 500 companies sponsor FIRST

$50M+
in scholarships

~40,000
robots constructed

12%
growth in number of FIRST teams (over 2016)

Limitless
opportunities for a meaningful experience
It’s not about winning... it’s about teamwork, commitment, and responsibility!

FIRST Robotics Competition Team 359 “Hawai’ian Kids” motto
A progression of **four programs** gets young people involved early, developing **skills** and building **confidence**, keeping them engaged from kindergarten through high school.

### First Robotics Competition
**Ages 14-18 (Grades 9-12)**

Mentored by STEM professionals, teams compete with 120-pound robots of their own design, combining the excitement of sport with the rigors of science and technology. It’s a sport where every student can go pro.

- **Robotics**
- **Learn From the Pros**
- **Game Play**
- **Scholarships**

### First Tech Challenge
**Ages 12-18 (Grades 7-12)**

Students learn to think like engineers. Teams build robots from a reusable kit of parts, develop strategies, document their progress in an engineering notebook, and compete head to head.

- **Robotics**
- **Engineering Notebook**
- **Game Play**
- **Scholarships**

### First LEGO League
**Ages 9-16* (Grades 4-8)**

*Ages vary by country

Guided by FIRST Core Values, teams build and program autonomous robots using LEGO® MINDSTORMS® technology to solve a series of missions on a themed playing field. They also develop research projects based on a real-world theme that changes annually.

- **Robotics**
- **LEGO® MINDSTORMS®**
- **Game Play**
- **Research**

### First LEGO League Jr.
**Ages 6-10 (Grades K-4)**

Teams explore today’s scientific challenges, then present what they learned using a Show Me poster. They also build a LEGO® model and program it to make it move using LEGO® Education WeDo 2.0.

- **Engineering Notebook**
- **LEGO® Education WeDo 2.0**
- **Research**
- **Presentations**
Expanding Access to the \textit{FIRST} Community

\textit{FIRST} launched its \textbf{STEM Equity Community Innovation Grants} program in the 2016-2017 season to provide grants to underrepresented and underserved communities. Supported by generous sponsors and donors, the grants empower educators and community leaders to develop new, innovative approaches to address inequities in STEM education using proven \textit{FIRST} programs. An evaluation was conducted to assess the implementation, impact, and practices around access, equity, and inclusion.

| 9 Sites | 1,080 Youth Reached | 152 Teams Started |

Supporting STEM Engagement in Detroit Community Center

\textbf{S.A.Y. DETROIT PLAY CENTER}

To fill a critical gap in one of Michigan’s most disinvested neighborhoods, the S.A.Y. (Sports. Academics. Youth.) Detroit Play Center sought high-quality, mentor-driven STEM programs to excite and engage local students at its afterschool tutoring and recreation center, which was opened by philanthropist Mitch Albom in 2015. With funding from a \textit{FIRST} STEM Equity Community Innovation Grant and support from \textit{FIRST} in Michigan leaders and local \textit{FIRST} Robotics Competition Team 503 “Frog Force,” S.A.Y. Play added a robotics room, formed \textit{FIRST} LEGO League and \textit{FIRST} Tech Challenge teams, and hosted a tournament in its first year.

With \textit{FIRST} programs, S.A.Y. Play is helping fill a void of team-based STEM engagement opportunities in neighborhood schools. In addition to building and programming robots, the S.A.Y. Play students are building positive relationships with STEM role models and learning to collaborate to solve problems, present their ideas to others, and practice public speaking. For the students, these opportunities are incredibly meaningful. “My favorite part is we get to learn new things every day,” Tyler, age 8, says.

“[\textit{FIRST} is] opening everyone’s eyes to the potential that robotics has. It’s not something you see every day [in the community].”

—Lena Pernell, Director, S.A.Y. Detroit Play Center
Breaking Down Barriers to STEM Access in First Nations Communities

ALBERTA DISTANCE LEARNING CENTER

The Alberta Distance Learning Center (ADLC) is breaking down access barriers to hands-on, community-based STEM learning experiences in rural and remote First Nations communities throughout Alberta, Canada, with the support of a FIRST STEM Equity Community Innovation Grant. The grant helped establish and grow FIRST teams at three First Nations schools, including funding ADLC curriculum development, First Nations teacher training, and a celebratory robotics and cultural event.

Young people from First Nations communities experience graduation rates that are lower than the Canadian average, often attributed to low attendance rates and skill shortages. FIRST programs fit well with Indigenous ways of knowing and learning, which include mentor-based learning, learning by doing, and learning through community. Through ADLC, First Nations students gained access to credits for participating meaningfully on FIRST teams. FIRST engaged the students in STEM and helped increase school attendance.

“We've never had robotics on our reserve. We felt it was important to help people learn about robotics because from robots you can launch careers into greater things: programming, building, design, repair.”

—Lloyd Verreault, Teacher/Mentor, FIRST Robotics Competition Team 6673 “Alexis Tech Warriors”

Reached more underrepresented and underserved youth

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</tbody>
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Results on this page are from an evaluation of the 2016-2017 FIRST® STEM Equity Community Innovation Grant.

Positive outcomes as a result of participation

GAINS IN 21ST CENTURY SKILLS

- Teamwork 93%
- Problem Solving 97%
- Leadership 91%

GAINS IN STEM

- STEM Interest 95%
- STEM Awareness 93%
- STEM Career Interest 90%

Factors that resulted in success

- A local Champion with a personal connection to the community
- Flexibility holding off-season events and extending the season to accommodate schedules
- Removing Barriers providing transportation, food, child care, and coach stipends
- Peer Mentoring by other FIRST teams
- Community Support Training
Season Highlights
FIRST is honored to welcome new Strategic Partners John Deere and NRG. Thank you!

Rockwell Automation announced a four-year, $12 million commitment to FIRST to address critical need to inspire and train students for today’s industrial careers.

Inaugural dual FIRST Championship events took place in Houston and St. Louis, with the culminating FIRST Festival of Champions held in Manchester, New Hampshire.

Triangle Fraternity is comprised of members who are pursuing college majors in engineering, math, and the sciences. They formalized an Alliance relationship with FIRST in order to help promote our programs among their members and encourage FIRST participation and engagement within their Fraternity Chapters.

SECOND annual FIRST, Inspire Gala honored David Siegel & Dana Matsushita, Dr. Irwin M. & Joan K. Jacobs, and Dr. Paul E. & Geneviève Jacobs for advancing STEM education in underserved communities.

Rockwell Automation

First communities reached more than 1,000 underserved and underrepresented students with hands-on learning and problem-solving opportunities after receiving 2016 FIRST STEM Equity Community Innovation Grants, sponsored by Alcoa Foundation, The Boeing Company, and Microsoft, among others; 2017 Grant was announced.

Second annual FIRST, Inspire Gala honored David Siegel & Dana Matsushita, Dr. Irwin M. & Joan K. Jacobs, and Dr. Paul E. & Geneviève Jacobs for advancing STEM education in underserved communities.

FIRST Scholarship program exceeded $50 million milestone.
Second Annual FIRST, Inspire Gala

To help expand diversity efforts and STEM opportunities for students in underserved communities, hundreds of FIRST supporters gathered at Cipriani 55 Wall Street in New York City for the second annual FIRST, Inspire Gala.

The event featured prominent speakers such as Dan Huttenlocher, Dean and Vice Provost of Cornell Tech; Dean Kamen, founder of FIRST; and many FIRST students, recognizing the impact that the organization has made in STEM education over the past 27 years.

“We come from different backgrounds, different cultures, and different lifestyles,” Eram, a student from Bronx Academy for Software Engineering, told the audience. “But what we all have in common is our passion for FIRST. With the skills that we learn and practice through FIRST programs, we will be the next generation that can solve some of the world’s biggest problems.”

The charity event included a live auction that featured a clock handmade by Kamen that sold to United Therapeutics. Proceeds from the event further expand opportunities for more students to participate in FIRST programs.

“We know that nurturing and strengthening education leads to continued innovation and, in the long run, economic growth. Qualcomm’s support of FIRST goes beyond traditional sponsorship. We want to transform young people’s lives and the future of our industry.”

—Paul Jacobs
Six honorees were presented with individual awards for their efforts to advance STEM education in underserved communities:

**David M. Siegel**, Co-Founder, Two Sigma Investments and member of the FIRST NYC Board of Directors, and **Dana Matsushita** earned the John C. Whitehead Leadership Award in honor of the New York City luminary who recognized the need for hands-on activities that inspire youth with the power of STEM.

**Dr. Irwin M. Jacobs**, Founding Chairman and CEO Emeritus, Qualcomm Incorporated; **Joan K. Jacobs**; **Dr. Paul E. Jacobs**, Executive Chairman, Qualcomm Incorporated; and **Geneviève Jacobs** earned the Community Inspiration Award for inspiring students to pursue STEM and help build stronger communities.

Thank you to our FIRST, Inspire Gala sponsors who appear on page 50 of this Report.

“FIRST is about helping each other succeed, and building community. Our problems today will be solved by the next generation. I can think of no better organization to solve them than FIRST.”

— David Siegel

$1.4 million raised to expand diversity efforts and student access to STEM opportunities
The annual FIRST Championship offered attendees its usual exciting, action-packed experience, but for the first time, twice as many people experienced the heart-pounding thrills and team spirit of this incredible sporting event.

Thanks to the support of FIRST sponsors, host cities Houston and St. Louis, and thousands of pumped-up volunteers, more than 30,000 students from 62 countries put their innovation skills to the test at the inaugural dual FIRST Championship presented by Qualcomm.

This global celebration of science, engineering, and technology inspired students and adults alike, with intense competitions, opportunities to create connections, shared ideas, and hands-on fun and technology demonstrations at the FIRST Innovation Faire.
“FIRST is a robust community of students, mentors, volunteers, and sponsors from all over the world. Each of you has your own unique qualities that make you a champion, but we are all united by our passion for using technology and engineering to make the world a better, safer, and healthier place.” — Donald E. Bossi

2017 FIRST Championship Sponsors

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Accomplishments
Approximately 64,000 6-10 year-olds participated on 10,655 teams in 42 countries, celebrating curiosity, imagination, discovery, and teamwork.

Competitions
Over 400 regional Expos; FIRST LEGO League Jr. World Festival Expo in Houston and St. Louis.

Noteworthy
Registered teams each received an exclusive LEGO Inspire Model to help start their journey. A grant from the LEGO Foundation allowed more than 8,000 underserved children across five countries to join in the season.

Young children ages 6-10 dove into the animal kingdom to learn how humans and animals help each other every day. Students built LEGO® models and programmed them with LEGO® Education WeDo 2.0 to make them move. They documented their journey in an Engineering Notebook and created Show Me posters to represent what they learned.
Sharing in the Community

LESLIE SCHECHT
FIRST LEGO League Jr. School District, District 75
New York, New York

New York City’s District 75 provides city-wide support programs for 25,000 public school students from pre-K to age 21 with moderate to severe disabilities. As the district’s director of STEM, Leslie Schecht is always looking for kinesthetic programs to reach kids with special needs.

Leslie was interested in FIRST LEGO League Jr. for her students because it was hands on and offered meaningful opportunities to collaborate and build social skills. “It’s very important, especially for kids on the autism spectrum, to work with other students, and it was the perfect venue for our students.”

During the 2016-2017 school year, Leslie worked with FIRST NYC to pilot the program in 22 district schools, including providing professional development for teachers and hosting a student expo in the spring at the New York Hall of Science.

The expo, attended by members of the community, has been a key part of FIRST LEGO League Jr.’s success in District 75, where the program is growing. “It’s inspirational: Kids see each other’s work and appreciate each other’s work, and they get ideas, so it’s all about moving forward,” Leslie said.

I really believe that if it’s good for general education students, it’s good for special education students. It’s just a matter of adapting and making it accessible.”

— Leslie Schecht, Director of STEM, NYC Department of Education District 75
Ages 9-16* (Grades 4-8)

Teams explored how we can improve our interactions with animals. Students were challenged to think about all the different ways that people interact with animals, and how we can be better allies.

Accomplishments
Approximately 248,000 9-16 year-olds* on 31,079 teams from 86 countries participated in this season’s Challenge.

Competitions
1,248 Qualifying Tournaments, 153 Championship Tournaments, 5 Open Championships; FIRST LEGO League World Festival in Houston and St. Louis.

Noteworthy
FIRST Steps gave new coaches an online, meeting-by-meeting resource to navigate their first season and connect with their contemporaries.

Global Innovation Award winners The Hydrators of Oakville, Ontario, Canada, created the H2O Post (Horses Hydrating Outside), an automated water post to monitor the amount of water horses drink using chips implanted in the horse’s naval cavity (details on page 47).

*Ages vary by country
Connecting communities

ZAINA SIYED
FIRST LEGO League Team 23772, “FemSTEM”
Chino Hills, California

At age 16, FIRST LEGO League Alumna Zaina Siyed founded the FemSTEM Robotics Scholarship Program, an all-female Muslim robotics team and scholarship fund based in Chino Hills, California. She recruited students, crowdfunded the costs, and coached the FIRST LEGO League team out of a local mosque.

Inspired by her own FIRST LEGO League experience, where she learned a lot about robotics, teamwork, coding, and perseverance, Zaina sought to awaken Muslim girls to STEM and break down barriers. “I wanted the girls in my community to experience FIRST LEGO League and be tech literate, passionate about STEM, and open to STEM careers,” she said. “I wanted them to be leaders and cooperative problem solvers.”

In just four months, Zaina helped eight girls without any prior robotics experience prepare for a FIRST LEGO League tournament. Despite being a rookie team, FemSTEM won a first-place overall award and advanced to a state championship. “My community was very proud of them and I think we have encouraged others to join FIRST,” she said.

For me, the FIRST community has been a uniting force and has helped everyone realize that lots of communities share a passion for science and technology.”

— Zaina Siyed, Founder/Coach, FemSTEM
Accomplishments
Approximately 52,000 participants (ages 12-18, grades 7-12) on 5,222 teams from 23 countries; eligible for over $50 million in college scholarships.

Competitions
628 Meets, League Championships, and Qualifying Tournaments; 82 Championship Tournaments; 4 Super-Regional Championship Tournaments; FIRST Tech Challenge World Championship in Houston and St. Louis.

Noteworthy
This year’s challenge introduced the use of Vuforia™ augmented reality software offered by PTC, allowing teams to track the orientation of image targets on the field to assist in autonomous navigation. Such exciting, best-in-class technology enhancements are made possible by the powerful Qualcomm Snapdragon processors used by teams.

Teams designed, programmed, and operated robots to place small balls into vortexes, including a Center Vortex on a rotatable stand, light beacons with their alliance’s color, and raise a large ball off the playing field and place it in their Center Vortex.
Building passion in a tech community

BAILEE ALLEN
Founder, FIRST Tech Challenge Team 9761 “The PrestidigiTaters”
Saint George, Utah

FIRST participant Bailee Allen was one of the 50 National Winners of the 2017 National Center for Women & Information Technology (NCWIT) Award for Aspirations in Computing. She plans to major in graphic design and start a web business – and she credits her unwavering passion for technology to the community she’s formed in southern Utah through FIRST and FIRST Strategic Alliances 4-H and NCWIT.

After participating in FIRST LEGO League and taking a programming class through 4-H, Bailee and her FIRST friends formed FIRST Tech Challenge Team 9761 “The PrestidigiTaters” through a 4-H grant. “That’s when I started to notice the difference the community around me was making on my FIRST experience and my path through technology,” she said.

The PrestidigiTaters have made it a priority to give back to the community through outreach events, robotics demonstrations, and teaching at technology and summer camps. The team also hosted a scrimmage for rookie FIRST Tech Challenge teams and mentors local FIRST LEGO League teams – or “potential PrestidigiTaters,” as Bailee calls them. “FIRST Tech Challenge is just fun. We do so many great things,” she said.

We wanted to give others the same opportunities we’ve been shown through FIRST and our tech community here in southern Utah.”

— Bailee Allen, Founder/Student, The PrestidigiTaters
FIRST STEAMWORKS invited two adventure clubs from an era in which technology relied on steam power to prepare their airships for the ultimate long distance race. Each three-team alliance scored points and prepared to take flight by building steam pressure, gathering materials to start the rotors, and boarding robots onto their airships.

Accomplishments
84,000 high-school students on 3,357 teams from 25 countries; eligible for over $50 million in college scholarships.

Competitions
80 District Events; 10 State/District Championships; 55 Regional Events; FIRST Robotics Competition Championship for over 800 participating teams in Houston and St. Louis.

Noteworthy
For the first time, four human players on the field became an integral part of game play. Our first international Chairman’s Award winner, Team 3132 “Thunder Down Under” of Australia, joined Team 2614 “MARS” as shining examples of the FIRST community.
Finding community and thriving

JAWANN ODUMODU

FIRST Robotics Competition Team 66 “Grizzly Robotics”

Ypsilanti STEMM Middle College, Ypsilanti, Michigan

Ypsilanti STEMM Middle College is a five-year dual-enrollment high school in Michigan founded around the principles of FIRST and its robust afterschool FIRST Robotics Competition program, “Grizzly Robotics.” In August 2016, the school, Grizzly Robotics, and the University of Michigan’s Michigan Bicentennial Archive (M-BARC) entered into a three-year partnership to build a prototype of a satellite as a part of a United Launch Alliance CubeSat Grant.

Jawann Odumodu and his teammate, Orlando Garrett, were selected to build the satellite prototype. “It was hard. We spent hours and hours and even our whole spring break at the school every day,” Jawann said. It was also a dramatic turnaround for Jawann, who the previous year had struggled to focus in school following a family tragedy.

After a mentor encouraged him to join Grizzly Robotics, which also included after-school homework supervision, Jawann improved his GPA from a 1.0 to 3.0 average – and his interest in robotics caught fire, leading to the Cubesat opportunity. Jawann, who is considering a career in robotics or medicine, looks forward to seeing a satellite he helped build launched into space.

“...What I really liked about FIRST is that no matter how you’re doing, you’re always proud of yourself. They always make you feel happy, that you’re welcome.”

— Jawann Odumodu, Student, Grizzly Robotics
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2017 FOUNDER’S AWARD
St. Louis Local Organizing Committee

Each year, the Founder’s Award is presented by FIRST Founder Dean Kamen to an organization or individual for exceptional service in advancing the ideals and mission of FIRST. In 2017, the award was presented to the St. Louis Local Organizing Committee for their dedication to making FIRST Championship and FIRST programs in St. Louis, Missouri, a success.

For the past seven years, the Committee worked tirelessly to welcome thousands of students, mentors, coaches, volunteers, and spectators to the FIRST Championship, while continuing to grow FIRST programs in the region. Through the work of the Committee, St. Louis expanded from hosting one FIRST Robotics Competition Regional event in 2010, to hosting over 60 events across all FIRST programs in 2017.

Susie Mathieu, who accepted the award on behalf of the Committee, recognized the lasting impression FIRST has made on the heart of the city. Mathieu also thanked the St. Louis area sponsors and community, whose support was instrumental in making FIRST programs more accessible.

As FIRST Championship moves to new cities, St. Louis has established a special place in FIRST history, and the ripple effects of the city’s continued partnership with FIRST will build a brighter future for generations to come.
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Developing a Strong STEM Community

The Woodie Flowers Award recognizes mentors who inspire their students to understand the challenges, opportunities, and satisfaction involved in the discipline of engineering and design. In 2017, it was awarded to FIRST Robotics Competition mentor Glenn Lee.

A former electrical engineer, Lee began teaching at Waialua High and Intermediate School in Waialua, Hawaii in 1994. In 1999, Lee co-founded FIRST Robotics Competition Team 359, “Hawai’ian Kids,” the first robotics-related program in the state. He believes robotics is a catalyst for opportunity and has inspired hundreds of students by sharing his knowledge, dedication, and enthusiasm.

Yearlong, Lee and Team 359 spread the mission and reach of FIRST. In Hawai’i, they mentor local teams and have worked with Hawai’ian legislators to expand access to FIRST programs and create STEM opportunities. Lee has also worked as an ambassador to expand FIRST Robotics Competition programs in China, Australia, and Japan. He embodies Team 359’s motto: “It’s not about winning … it’s about teamwork, commitment, and responsibility!”

Lee is described by his students as the linchpin for Team 359. He is a small part of the overall function of the team, but also one of the most vital, holding together hundreds of FIRST youth, families, mentors, and colleagues from around the world.
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Motorola Solutions Foundation
GE Energy
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GE Healthcare
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Society of Women Engineers (SWE)
**FIRST** prepares students for life beyond high school

- Create community
- Grow your network
- Find internships
- Inspire others

**Highest degree expected:**
- 34% Bachelors
- 41% Masters
- 19% Doctorate

**43% of alumni still involved in FIRST:**
- 26% are mentor/coaches
- 18% volunteer at events
- 15% volunteer (other)

**FIRST Alumni gained skills and attitudes needed in today’s workforce:**
- 90% Problem Solving Skills
- 90% Teamwork
- 87% Innovative Thinking
- 85% Creative Thinking
- 85% Perseverance
- 79% Leadership

**FIRST strengthened post-high school success:**
- 83% more confident in leadership roles
- 78% more confident in time management
- 74% more prepared for college courses
- 72% gained access to mentors and peers in STEM

**College majors:**
- 54% Engineering
- 32% Computers/Programming
- 22% Science
- 11% Math

**78% of all alumni:**
- 68% of all female
- 82% of all male
- are in STEM fields

*Could select more than one option. FIRST® Alumni Study (2015)*

www.firstinspires.org/alumni
In 2017, as part of the FIRST Scholarship Program, nearly 200 FIRST Scholarship Providers made available over $50 million in scholarship opportunities to FIRST Robotics Competition and FIRST Tech Challenge participants and alumni.

The majority of FIRST scholarships are made available by specific colleges or universities for enrollment at their campuses; others are made available by corporations, associations, or foundations for use at a selection of schools. The 2017 FIRST Scholarships are listed below.

To learn more about the FIRST Scholarship Program, or to make FIRST Scholarships available from your institution, please visit: www.firstinspires.org/scholarships

### 2017 FIRST SCHOLARSHIP PROVIDERS

#### PLATINUM ($500,000+)
- Capitol Technology University
- Clarkson University
- Florida Institute of Technology
- Illinois Institute of Technology
- Johnson & Wales University
- Kettering University
- Lawrence Technological University
- Macquarie University
- Massachusetts Institute of Technology (MIT)
- Michigan Tech University
- Milwaukee School of Engineering
- Olin College of Engineering
- Rensselaer Polytechnic Institute
- Rochester Institute of Technology
- Stevens Institute of Technology
- University of Advancing Technology
- University of Rochester
- U.S. Navy ROTC–St. Louis Recruiting District
- Webb Institute
- Worcester Polytechnic Institute
- Yale University

#### GOLD ($100,000 - $499,000)
- Boston University
- Bucknell University
- College of the Atlantic
- Daniel Webster College
- The Dr. Bart Kamen Memorial FIRST Scholarship
- Drexel University
- Embry-Riddle Aeronautical University–AZ
- Embry-Riddle Aeronautical University–FL
- Hudson Valley Community College
- Indiana University
- Instituto Tecnológico Autónomo de México (ITAM)
- Jacksonville University
- Merrimack College
- Northeastern University
- Randolph College
- Rose-Hulman Institute of Technology
- Syracuse University College of Engineering & Computer Science
- Tulane University
- University of Hartford
- University of Missouri–Kansas City
- Virginia Commonwealth University
- Webster Institute
- University of Pennsylvania
- Canadore College
- City College of New York
- Eastern Washington University
- Grand Valley State University
- Hofstra University
- Lake Superior State University
- Make School
- Mercer University
- Missouri University of Science & Technology
- Molloy College
- NextEra Energy/Florida Power & Light Company
- Nipissing University
- Northwestern University
- The Ohio State University
- Oklahoma State University
- College of Engineering, Architecture & Technology
- Rutgers University
- St. Clair College
- Southern New Hampshire University
- Texas Tech University
- University of Maryland, A. James Clark School of Engineering
- University of Massachusetts Lowell Engineering
- University of Tennessee, College of Engineering
- Vermont Technical College
- Whitworth University
- Xavier University
- North Carolina State University
- NYU Tandon School of Engineering
- Oregon Institute of Technology
- Oregon State University
- Pennsylvania State University, College of Engineering
- Phil Clancy Memorial Scholarship
- Plymouth State University
- Portland State University
- Purdue University
- Queen’s University
- Robert Morris University
- Ryerson University–Faculty of Engineering & Architectural Science
- St. Louis Community College
- ServoCity
- SME Education Foundation
- Society of Women Engineers (SWE)
- South Dakota School of Mines & Technology
- Southwestern Michigan College
- SpaceX
- TE Connectivity
- University of Central Missouri
- University of Illinois at Urbana-Champaign–College of Engineering
- University of Iowa
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- University of Wisconsin, Madison
- Viterbo University
- Washington State University–CAHNRS
- Western Carolina University
- Western Technical College
- Western University
- York University
- Youngstown State University
- College of STEM

#### SILVER ($40,000 - $99,000)
- American Society of Mechanical Engineers (ASME)
- Arizona State University
- Bradley University
- Case Western Reserve University
- Fairleigh Dickinson University
- Hallmark University
- Harvey Mudd College
- Indiana University-Purdue University–Indiana (IUPUI)
- Lindenwood University
- Marquette University
- McKendree University
- National Fluid Power Association (NFPA)
- Northern Arizona University
- Northwestern Nazarene University Engineering
- Nuts, Bolts & Thingamajigs Foundation
- Pace University
- Polytechnic University
- Pacific University
- Raytheon Company
- Seattle Pacific University
- SUNY Polytechnic Institute
- Temple University
- University of Cincinnati–College of Engineering & Applied Science
- University of Kansas
- University of Minnesota Twin Cities/PTC, Inc.
- University of Portland
- University of South Carolina, College of Engineering & Computing
- University of Southern California
- Viterbi School of Engineering
- University of Texas Arlington
- University of Texas at Austin
- Virginia Polytechnic Institute and State University
- Washington State University–Vandals College of Engineering & Architecture

#### BRASS (UP TO $19,999)
- American Petroleum Institute
- Anoka Technical College
- Boise State University
- Cleveland State University
- The College of St. Scholastica
- DePaul University
- Eagle Robotics
- East Carolina University
- Eastern Michigan University
- Farmingdale State College
- Ferris State University
- Gates Corporation
- George Fox University
- Georgia Institute of Technology
- Kansas State University
- College of Engineering
- Los Angeles Robotics/Southern California Regional Robotics Forum (SCRRF)
- Maryland Institute
- McMastern University
- Metropolitan Community College–Maple Woods
- Mineral Area College
- Murray State University
- New York Institute of Technology
- North Carolina Agricultural & Technical University
- Okaloosa Technical College
- Oregon State University
- Portland Community College
- Portland State University
- Plymouth State University
- Purdue University
- Queen’s University
- Rowan University
- Southern Oregon University
- South Dakota School of Mines & Technology
- Southwest Texas State University
- Texas A&M University–Commerce
- Texas Tech University
- The City College of New York–City University of New York
- The Ohio State University
- Oklahoma State University
- College of Engineering, Architecture & Technology
- Rutgers University
- St. Clair College
- Southern New Hampshire University
- Texas Tech University
- University of Maryland, A. James Clark School of Engineering
- University of Massachusetts Lowell Engineering
- University of Tennessee, College of Engineering
- Vermont Technical College
- Whitworth University
- Xavier University

#### BRONZE ($20,000 - $39,000)
- Adelphi University
- California University of Pennsylvania
- Canadore College
- City College of New York
- Eastern Washington University
- Grand Valley State University
- Hofstra University
- Lake Superior State University
- Make School
The following key organizations and volunteers in the field organize the FIRST LEGO League Jr. program in their respective regions.

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Across the FIRST Progression of Programs, team members are encouraged to ask questions, challenge themselves, and follow their own spark of innovation to improve the world around them. Divergent thinking and community outreach are the norm, not the exception. Using robotics competitions as the vehicle, FIRST is inspiring the next generation of leaders, builders, and dreamers to solve problems in their communities.

**2017 FIRST LEGO League Global Innovation Award**

The FIRST LEGO League Global Innovation Award is a competition designed to showcase the real-world, innovative solutions that FIRST LEGO League teams create as a result of their Project.

In its seventh year, the 2017 FIRST LEGO League Global Innovation Award celebrated the inventions FIRST LEGO League teams created to improve how humans interact with animals during the ANIMAL ALLIES™ season. The competition asks teams to consider possible barriers to implementation, document the evaluation of their invention, and validate their design with professionals and gives teams a way to build critical skills in these areas.

“The Hydrators” from Oakville, Ontario, Canada, took the top prize – a $20,000 cash award – with their H2O Post (Horses Hydrating Outside), an automated water post that monitors the amount of water horses drink. The post and trough monitor water consumption by using chips implanted in the horse’s naval cavity. The data is collected through a RFID reader and is sent to the horse’s owner through an app.
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Franzi Ronneburger
HANDS on TECHNOLOGY e.V.

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FIRST LEGO League à Islandi

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Mandy Workman
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Maine Robotics

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Robotics Alliance of Mississippi

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PENNSYLVANIA – SOUTHWEST
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**Maker**
- Myron E. Ullman, III
- Karl Sprules

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- Booz | Allen | Hamilton
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<table>
<thead>
<tr>
<th>State</th>
<th>Affiliates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Puerto Rico</td>
<td>Roberto Gorbea, Eureka Enrichment and Learning Center, Inc.</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>Rebekah Gendron, Rhode Island School of the Future</td>
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<tr>
<td>South Carolina</td>
<td>Louis Rubbo, SC FIRST LEGO League and Robotics Education, Inc.</td>
</tr>
<tr>
<td>South Dakota</td>
<td>Amy Engebretson, EmBe</td>
</tr>
<tr>
<td>Tennessee</td>
<td>Thomas Banning, Daniel Kohn, University of Memphis and Herff College of Engineering</td>
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<tr>
<td>Tennesssee – East</td>
<td>Kris Craven, Paula Suchomski, Bradley Weil, Tennessee Technological University</td>
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<tr>
<td>Tennesssee – West</td>
<td>Tom Banning, Frank Niedzwiedz, University of Memphis and Herff College of Engineering</td>
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<tr>
<td>Texas – Alamo</td>
<td>Megan Clark, Andrew Schuetze, SATEMTC</td>
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<tr>
<td>Texas – Central</td>
<td>Kristi Cantu, Jesse Jankowitsch, FIRST in Texas</td>
</tr>
<tr>
<td>Texas – North</td>
<td>Kristi Cantu, Teresa Lenling, Shannon Page, Perot Museum of Nature and Science</td>
</tr>
<tr>
<td>Texas – South</td>
<td>Tami Riggs, British International School of Houston</td>
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<td>Texas – Southwest</td>
<td>Gabby Gandara, Virgilio Gonzalez, University of Texas at El Paso</td>
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<tr>
<td>Utah</td>
<td>Jenna Boltz, Utah Valley University</td>
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<td>Vermont</td>
<td>David Feinauer, Ph.D., Norwich University</td>
</tr>
<tr>
<td>Virginia/District of Columbia</td>
<td>Krystian Jones, Nick Swayne, James Madison University</td>
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<tr>
<td>Washington</td>
<td>Susan Martucci, Erin McCallum, Washington FIRST Robotics</td>
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<tr>
<td>West Virginia</td>
<td>Todd Ensign, Fairmont State University</td>
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<td>Wisconsin</td>
<td>Lisa Bartig, Ben Sensen, BadgerBOTS</td>
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<tr>
<td>Wyoming</td>
<td>Shannon Fischer, Natrona County School District</td>
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<tr>
<td>Yemen</td>
<td>Ismail Yaseen Hasan, King Hussein Foundation</td>
</tr>
<tr>
<td>2016-2017</td>
<td>FIRST TECH CHALLENGE</td>
</tr>
<tr>
<td>2016-2017</td>
<td>The following key organizations and volunteers in the field organize the FIRST Tech Challenge program in their respective regions.</td>
</tr>
<tr>
<td>AFFILIATE PARTNERS</td>
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</tr>
<tr>
<td></td>
<td>Canada, Alberta, Philippe Manseau, Randy Enkin</td>
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<td>BRITISH COLUMBIA, China, Eugene Zhang, Semia Limited</td>
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<td></td>
<td>Chinese Taipei, China, Eugene Zhang, Semia Limited</td>
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<td></td>
<td>Czech Republic, Czech Republic, Eugene Zhang, Semia Limited</td>
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<td>Egypt/Lebanon, Egypt/Lebanon, Eugene Zhang, Semia Limited</td>
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<td></td>
<td>Egypt/Lebanon, Egypt/Lebanon, Eugene Zhang, Semia Limited</td>
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<td></td>
<td>France, Eugene Zhang, Semia Limited</td>
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<tr>
<td></td>
<td>India, Sudhanush Sharma, Technotronics Education</td>
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<tr>
<td></td>
<td>Israel, Yaarit Levy, FIRST Israel</td>
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<td></td>
<td>Mexico, Bárbara Gómez de Navarro, Explora, Descubre Y Crea, AC</td>
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<td></td>
<td>The Netherlands, Lennart de Graaf, Fonts Hogeschool ICT</td>
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<td></td>
<td>New Zealand, Jason Kyle, FIRST</td>
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<td></td>
<td>Republic of Korea, Republic of Korea, FIRST</td>
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<td>Romania, Bogdan Enoiu, B.V. McCann Erickson</td>
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<tr>
<td>Russia</td>
<td>Ekaterina Nikitina, Oleg Deripaska Foundation Volnoe Delo</td>
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<tr>
<td>South Africa</td>
<td>Johannes de Vries, Tshwane University of Technology</td>
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<tr>
<td>United States</td>
<td>Renee Kozar, Sheryl Darrow, FIRST in Alabama</td>
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<tr>
<td>Alaska</td>
<td>Brian Holst, Juneau Economic Development Council</td>
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<tr>
<td>Arizona</td>
<td>Christine Sapi, Coconino High School</td>
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<tr>
<td>David Thompson</td>
<td>Northern Arizona University</td>
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<tr>
<td>Arkansas</td>
<td>Jacquelyn Basinger, Mountain Home High School – Career Academies</td>
</tr>
<tr>
<td>California – Los Angeles</td>
<td>Gil Johnson, alt-NEXT</td>
</tr>
<tr>
<td>California – Northern California</td>
<td>Jill Wilker, Mark Edelman, Playing @ Learning</td>
</tr>
<tr>
<td>California – San Diego</td>
<td>John Brooks, Marion Brooks, LAUNCH</td>
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<tr>
<td>California – Los Angeles</td>
<td>Gil Johnson, alt-NEXT</td>
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<tr>
<td>Delaware</td>
<td>Eric Cheek, Delaware State University</td>
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<tr>
<td>Florida</td>
<td>Hans Wolf, Tampa Bay Robotics Foundation, Inc.</td>
</tr>
<tr>
<td>Georgia</td>
<td>Connie Haynes, Georgia FIRST</td>
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<tr>
<td>Hawaii</td>
<td>Aaron Dengler, Punahou School</td>
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<tr>
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<td>Tim Ewers, University of Idaho Extension 4-H</td>
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<tr>
<td>Illinois</td>
<td>Michael Seedman, University of Iowa</td>
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<tr>
<td>Indiana</td>
<td>Darrin Wilcoxson, Crawfordsville High School</td>
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<tr>
<td>Iowa</td>
<td>Rebecca Whitaker, University of Iowa</td>
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<tr>
<td>Kentucky</td>
<td>James Klauber, Owensboro Community and Technical College</td>
</tr>
<tr>
<td>Louisiana</td>
<td>Annette Oertling, FIRST Louisiana-Mississippi</td>
</tr>
<tr>
<td>Maryland</td>
<td>Bill Duncan, STEAMaction, Inc.</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>Loretta Bessette, MIT Lincoln Laboratory</td>
</tr>
<tr>
<td>Michigan High School</td>
<td>Betsy Lamb, Ted Lorts, Cranbrook Schools, Michigan</td>
</tr>
<tr>
<td>Michigan Middle School</td>
<td>Francois Castaing, Gail Alpert, FIRST in Michigan</td>
</tr>
<tr>
<td>Minnesota</td>
<td>Cheryl Moeller, High Tech Kids</td>
</tr>
<tr>
<td>Mississippi</td>
<td>John O’Haver, University of Mississippi</td>
</tr>
<tr>
<td>Missouri</td>
<td>Susie Mathieu, New Jersey Institute of Technology</td>
</tr>
<tr>
<td>Montana</td>
<td>Ed Huth, Oracle</td>
</tr>
<tr>
<td>Nebraska</td>
<td>Bradley Barker, Nebraska 4-H Youth Development</td>
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<tr>
<td>Nevada</td>
<td>Jean Hoppert, FIRST Nevada</td>
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<td>New Hampshire</td>
<td>Bruce Linton, ingenuityNE</td>
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<tr>
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<td>Joel Bloom, New Jersey Institute of Technology</td>
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<tr>
<td>New York City</td>
<td>Pat Daly, NYC FIRST</td>
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<tr>
<td>New York – Empire</td>
<td>Richard Kline, Pace University, Bronx</td>
</tr>
<tr>
<td>New York – Excelsior</td>
<td>Janice Martino, SUNY Polytechnic Institute</td>
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<tr>
<td>New York – Empire</td>
<td>Richard Kline, Pace University, Bronx</td>
</tr>
<tr>
<td>North Carolina</td>
<td>Robert Pompey Jr., North Carolina A&amp;T State University</td>
</tr>
<tr>
<td>North Dakota</td>
<td>Paul Keidel, Bismarck Career Academy</td>
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<td>Ohio</td>
<td>Linda Neenan, ISPace, Inc.</td>
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<tr>
<td>Oklahoma</td>
<td>Brad Fitzgerald, Southwest Oklahoma State University</td>
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Oregon Robotics Tournament and Outreach Program (ORTOP)

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2016-2017 FIRST ROBOTICS COMPETITION
The following organizations partner with FIRST to implement the FIRST Robotics Competition program in a specified region.

Australia
Macquarie University

Canada
ONTARIO
FIRST Robotics Canada

ALBERTA
FIRST Robotics Society (FRS)

China
China Urban Youth Robot Alliance (CUYRA)

Israel
FIRST Israel

Mexico
Instituto Tecnológico y de Estudios Superiores de Monterrey

United States
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AZFirst

ALABAMA
FIRST in Alabama

ARKANSAS
Arkansas FIRST

COLORADO
ColoradoFIRST

FLORIDA
Florida FIRST Robotics Education Foundation, Inc. (FFREF)

GEORGIA
GeorgiaFIRST Robotics Inc.

HAWAI‘I
Friends of Hawaii Robotics

IDAHO
Rocky Mountain Robotics
Financials
Our programs’ participation growth and mission successes continued once again in fiscal year 2017. We continue to have relatively balanced growth in both operating revenues and expenses, including additional investments in our Youth Protection Program, Information Technology, Program Evaluations, Diversity & Inclusion Program, and our Education Initiative. Contributions remained strong, as many individuals, small businesses, corporations – including over 200 of the Fortune 500 companies – and foundations maintained or increased their support, while many new sponsors joined FIRST. This contributed support provided very meaningful experiences to approximately a half-million youth engaged worldwide in the FIRST Progression of Programs.

As noted in the graph, and in keeping with long-time practices, FIRST continues to apply the maximum percentage of funds possible to directly benefit FIRST participants. Included within the modest G&A expenses are several significant investments in infrastructure enhancements, including those noted above.

FIRST achieved its twelfth consecutive four-star rating from Charity Navigator, certifying our continued commitment to accountability, transparency, and sound fiscal management. This consecutive rating places FIRST in the top 1 percent of the U.S. charities annually evaluated by Charity Navigator.

### STATEMENTS OF ACTIVITIES

<table>
<thead>
<tr>
<th>JUNE 30, 2017</th>
<th>JUNE 30, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenues and other support:</strong></td>
<td></td>
</tr>
<tr>
<td>Program registration fees</td>
<td>$ 28,433,710</td>
</tr>
<tr>
<td>Contributions and grants</td>
<td>14,720,452</td>
</tr>
<tr>
<td>Other income, net of expenses of $102,065 in 2017 and $98,515 in 2016</td>
<td>1,313,487</td>
</tr>
<tr>
<td>Special event income, net of expenses of $395,911 in 2017 and $434,286 in 2016</td>
<td>529,054</td>
</tr>
<tr>
<td>Net assets released from restrictions</td>
<td>27,339,944</td>
</tr>
<tr>
<td><strong>Total revenues (losses) and other support</strong></td>
<td><strong>72,336,647</strong></td>
</tr>
</tbody>
</table>

| **Expenses:** | | 
| FIRST Robotics Competition | 43,886,704 | 38,649,008 |
| FIRST LEGO League and FIRST LEGO League Jr. | 9,056,033 | 7,097,363 |
| FIRST Tech Challenge | 8,339,600 | 8,590,482 |
| Net cost of building space occupied by unrelated not-for-profit organizations | 268,304 | 257,648 |
| General, administrative and supporting services, and fundraising | 8,849,470 | 8,584,578 |
| Operation of FIRST facilities | 417,706 | 416,527 |
| Depreciation | 718,742 | 604,220 |
| **Total expenses** | **71,536,559** | **64,199,826** |
| **Operating surplus** | **800,088** | **1,857,655** |

<table>
<thead>
<tr>
<th><strong>STATEMENTS OF FINANCIAL POSITION</strong></th>
<th>JUNE 30, 2017</th>
<th>JUNE 30, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents*</td>
<td>16,612,801</td>
<td>17,029,618</td>
</tr>
<tr>
<td>Short-term investments*</td>
<td>10,750,000</td>
<td>11,000,000</td>
</tr>
<tr>
<td>Pledges, receivables, program supply inventory, and other assets</td>
<td>15,572,532</td>
<td>12,684,582</td>
</tr>
<tr>
<td>Net property, plant, and equipment</td>
<td>5,294,793</td>
<td>5,060,032</td>
</tr>
<tr>
<td><strong>Total assets, end of year</strong></td>
<td><strong>48,230,126</strong></td>
<td><strong>45,774,232</strong></td>
</tr>
</tbody>
</table>

| **Liabilities and net assets:** | | 
| Total liabilities, end of year | **4,391,581** | **3,095,896** |
| Net assets: | | 
| Unrestricted | 25,434,899 | 24,634,811 |
| Temporarily restricted | 18,403,646 | 18,043,525 |
| **Total net assets, end of year** | **43,838,545** | **42,678,336** |
| **Total liabilities and net assets, end of year** | **$ 48,230,126** | **$ 45,774,232** |

For each of the two fiscal years summarized above, FIRST received unmodified (unqualified) opinions from its independent auditor, BerryDunn.

*Note: The cash and short-term investments are comprised of both unrestricted funds and donor temporarily restricted funds. The total liquid assets balance available to FIRST for operating purposes, at June 30, 2017, is equivalent to approximately four months of FIRST operating expenses.

The financial information presented here is condensed and does not include the value of all donated services and materials. Audited Financial Statements (AFS) are readily available on the website at www.firstinspires.org under "About/Annual Report." Certain amounts reported for 2016 have been restated. For details, please refer to the accompanying notes which are an integral part of the AFS, at the above web address.
## Leadership

### BOARD OF DIRECTORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Role/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert K. Ortega</td>
<td>Co-Chair, Chairman, President &amp; Chief Executive Officer</td>
</tr>
<tr>
<td>Rockwell Collins</td>
<td></td>
</tr>
<tr>
<td>Robert M. Tuttle</td>
<td>Co-Chair, General Partner</td>
</tr>
<tr>
<td>1848 Associates</td>
<td></td>
</tr>
<tr>
<td>Dr. Laurie Leshin</td>
<td>Vice Chair, President</td>
</tr>
<tr>
<td>Worcester Polytechnic Institute</td>
<td></td>
</tr>
<tr>
<td>Dr. Vincent Wilczynski</td>
<td>Treasurer, Deputy Dean, School of Engineering &amp; Applied Science</td>
</tr>
<tr>
<td>Yaley University</td>
<td></td>
</tr>
<tr>
<td>Dr. Donald E. Bossi</td>
<td>Secretary, President</td>
</tr>
<tr>
<td>FIRST</td>
<td></td>
</tr>
<tr>
<td>Dean Kamen</td>
<td>Founder, President</td>
</tr>
<tr>
<td>DEKA Research &amp; Development Corporation</td>
<td></td>
</tr>
<tr>
<td>John E. Abele</td>
<td>Founding Chairman, Retired Boston Scientific Corporation</td>
</tr>
<tr>
<td>Virginia Addicott</td>
<td>President &amp; Chief Executive Officer, FedEx Custom Critical, Inc.</td>
</tr>
<tr>
<td>Dr. Robin N. Coger</td>
<td>Dean, College of Engineering, North Carolina A&amp;T State University</td>
</tr>
<tr>
<td>Walter P. Havenstein</td>
<td>Chief Executive Officer, Retired Science Applications International Corporation (SAIC)</td>
</tr>
<tr>
<td>Dr. Paul E. Jacobs</td>
<td>Chairman &amp; Chief Executive Officer, FIRST</td>
</tr>
<tr>
<td>XCOM</td>
<td></td>
</tr>
<tr>
<td>Dr. Shirley Ann Jackson</td>
<td>President, RSesselaer Polytechnic Institute</td>
</tr>
<tr>
<td>Kjeld Kirk Kristiansen</td>
<td>Deputy Chairman of the Board, LEGO Foundation &amp; KIRKBI A/S</td>
</tr>
<tr>
<td>Dr. William P. Murphy, Jr.</td>
<td>Founder, Cordis Corporation</td>
</tr>
<tr>
<td>Steve Sanghi</td>
<td>Chairman of the Board, President, and Chief Executive Officer, Microchip Technology, Inc.</td>
</tr>
<tr>
<td>The Honorable</td>
<td></td>
</tr>
<tr>
<td>Jeanne Shaheen</td>
<td>United States Senator, New Hampshire</td>
</tr>
<tr>
<td>Josh S. Weston</td>
<td>Honorary Chairman, Automatic Data Processing, Inc.</td>
</tr>
</tbody>
</table>

### HONORARY DIRECTORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Role/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul A. Allaire</td>
<td>FIRST Chairman: 1995-2000, Chairman &amp; Chief Executive Officer, Retired Xerox Corporation</td>
</tr>
<tr>
<td>J.T. Battenberg III</td>
<td>Chairman &amp; Chief Executive Officer, Retired Delphi Corporation</td>
</tr>
<tr>
<td>François J. Castaing</td>
<td>Executive Vice President, Retired Chrysler Corporation</td>
</tr>
<tr>
<td>L. John Doerr III</td>
<td>Chairman, Kleiner Perkins Caulfield &amp; Byers</td>
</tr>
<tr>
<td>Gary L. Tooker</td>
<td>Chairman of the Board, Retired Motorola, Inc.</td>
</tr>
</tbody>
</table>

### SENIOR ADVISORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Role/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Woodie Flowers</td>
<td>Co-Chair &amp; Distinguished Advisor, Pappalardo Professor Emeritus of Mechanical Engineering, Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>Kevin Ross</td>
<td>Co-Chair, Founder, Washington FIRST Robotics</td>
</tr>
<tr>
<td>Ray Alpert</td>
<td>President, FIRST in Texas</td>
</tr>
<tr>
<td>Mark Breadner</td>
<td>President, FIRST Robotics Canada</td>
</tr>
<tr>
<td>Sujeet Chand</td>
<td>Chief Technology Officer &amp; Senior Vice President, Rockwell Automation, Inc.</td>
</tr>
<tr>
<td>Costema (Connie) Crawford, P.E.</td>
<td>Senior Vice President, The Louis Berger Group, Inc.</td>
</tr>
<tr>
<td>Michael Dubno</td>
<td>Head of Global Markets &amp; Research Technology, Retired Bank of America Merrill Lynch</td>
</tr>
<tr>
<td>Greg Hale</td>
<td>Vice President &amp; Chief Safety Officer, Walt Disney Parks &amp; Resorts</td>
</tr>
<tr>
<td>Erik Haleus</td>
<td>President &amp; Chief Executive Officer, Walt Disney Parks &amp; Resorts</td>
</tr>
<tr>
<td>Luan Heimlich</td>
<td>Manager, Technology-based Outreach, Dept. of Engineering Macquarie University</td>
</tr>
<tr>
<td>James E. Heppelmann</td>
<td>President &amp; Chief Executive Officer, PTC</td>
</tr>
<tr>
<td>Marc Hodosh</td>
<td>Co-Creator, TEDMED</td>
</tr>
<tr>
<td>Kent H. Hughes</td>
<td>Public Policy Scholar, Woodrow Wilson International Center for Scholars</td>
</tr>
<tr>
<td>Esben Stærk Jørgensen</td>
<td>President, LEGO® Education</td>
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</tbody>
</table>

### EXECUTIVE ADVISORY BOARD

<table>
<thead>
<tr>
<th>Name</th>
<th>Role/Position</th>
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</thead>
<tbody>
<tr>
<td>Donald E. Bossi</td>
<td>President, FIRST</td>
</tr>
<tr>
<td>Terry Durkin</td>
<td>Vice President, Finance, FIRST</td>
</tr>
<tr>
<td>Erica Fessia</td>
<td>Vice President, Field Operations FIRST</td>
</tr>
<tr>
<td>Mark Giordono</td>
<td>Vice President, Development FIRST</td>
</tr>
<tr>
<td>Dave Wilson</td>
<td>Vice President of Product Marketing, Academic National Instruments</td>
</tr>
</tbody>
</table>

### LEADERSHIP TEAM

<table>
<thead>
<tr>
<th>Name</th>
<th>Role/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST President</td>
<td></td>
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<tr>
<td>Mark Breadner</td>
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<tr>
<td>Donald E. Bossi</td>
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<td>John H. Lynch</td>
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<tr>
<td>Luan Heimlich</td>
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<tr>
<td>Steve Sanghi</td>
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<tr>
<td>The Honorable</td>
<td></td>
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<tr>
<td>Gary L. Tooker</td>
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<tr>
<td>James R. Utzski</td>
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<tr>
<td>James E. Heppelmann</td>
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<td>Esben Stærk Jørgensen</td>
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</table>

Listing current as of June 30, 2018
Vision

“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

Mission

To inspire young people to be science and technology leaders and innovators, 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.

Impact

BUILDING COMMUNITY
FIRST participation is proven to encourage students to pursue education and careers in STEM-related fields, inspire them to become leaders and innovators, and enhance their 21st century work-life skills.