



MEMORIAL *FIRST*[®] SCHOLARSHIPS

2022 HIGHLIGHTS

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THANK YOU FOR YOUR SUPPORT

FIRST® is the vehicle by which young people of all backgrounds can discover a love of learning, hone their creativity, and unlock their full amazing potential. Participants and alumni of *FIRST* programs gain access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the *FIRST* community for life. The Dr. Bart Kamen Memorial *FIRST* Scholarship Fund and the Woodie Flowers Memorial Grant are unique members of the *FIRST* Scholarship Program as the only *FIRST*-managed scholarships in the Program.

These memorial scholarships were developed in memory and support of the legacy of two incredible *FIRST* family members whose influence lives on in the *FIRST* Community and within the lives of the scholarship winners funded in their names. As we reflect on the impact and legacy that this year's scholars will carry on, we thank you for your support of these scholarships and of the *FIRST* mission.

WOODIE FLOWERS MEMORIAL GRANT

ABOUT DR. WOODIE C. FLOWERS

The late Dr. Woodie Flowers loved *FIRST*, and in return was loved by the *FIRST* community. He was a gifted and beloved professor who championed and implemented a hands-on learning philosophy that reshaped engineering and design education at the Massachusetts Institute of Technology (MIT) where he taught for thirty years. And it was his ethos of *Gracious Professionalism*® that shaped the ethos of *FIRST*.

Woodie, as he was affectionately known to *FIRST* students everywhere, collaborated with Dean Kamen to develop the *FIRST*® Robotics Competition and was key to establishing the ethos of *FIRST* by coining the term *Gracious Professionalism* and modeling its meaning in his every action. Encouraging all to enjoy a meaningful life, Woodie empowered us to fully contribute to our world and was exceptionally skilled at communicating how we can all work together to meet our common goals – even as competitors.

ABOUT THE GRANT

The Woodie Flowers Memorial Grant seeks to further the legacy of Dr. Woodie Flowers by providing funding to undergraduate students pursuing a degree in a STEAM (science, technology, engineering, arts, math) field. It supports *FIRST* students who embrace the Woodie adage of “in effort, there is joy” and who work with others to contribute to the world as a Gracious Professional.

The Woodie Flowers Memorial Grant awards one initial, renewable grant of \$10,000 to a student selected from the prior year’s *FIRST*® Tech Challenge and *FIRST* Robotics Competition Dean’s List Award winners.



DR. WOODIE C. FLOWERS

(1943 - 2019) Executive Advisory Board
Chair Emeritus, Distinguished Advisor
to *FIRST*, and Pappalardo Professor
Emeritus of Mechanical Engineering
at the Massachusetts Institute
of Technology

WOODIE FLOWERS MEMORIAL GRANT RECIPIENT

MEGAN VOLKENING

2022 Woodie Flowers Memorial Grant Recipient

Megan is a six-year participant of *FIRST*® *LEGO*® League, *FIRST* Robotics Competition, and *FIRST* Tech Challenge. A Dean's List winner from *FIRST* Tech Challenge Team 18367 "GRAFFITI" in Wisconsin, Megan is a passionate *FIRST* advocate, participating in both the Wisconsin and *FIRST* Advocacy Conferences.

Megan intends to pursue a degree in Mechanical engineering with a certificate in Sustainable Energy and is looking forward to supporting local *FIRST* teams as a mentor/coach and event volunteer.

"Knowledge can lead to wisdom and influence can lead to power to make changes in our world. The judges were very impressed with all of the candidates' accomplishments and plans for the future. We believe that with her education, Megan will acquire further wisdom which she will use to build upon the influence she has already exercised for FIRST to make changes at the local, state, and national level to raise funds, train mentors, create awareness, and encourage young women to join. Megan's energy, passion and attention to detail will be a force for good for FIRST for the years to come so that more may enjoy a meaningful life."

– Margaret Flowers, Scholarship Committee member



DR. BART KAMEN MEMORIAL *FIRST* SCHOLARSHIP FUND



DR. BARTON A. KAMEN

(1948 – 2012) A long tenured and passionate FIRST supporter, distinguished pediatric oncologist, cancer pharmacologist, and devoted family man.

ABOUT DR. BARTON A. KAMEN

Dr. Bart Kamen was known by his colleagues as a brilliant scholar, compassionate physician, dedicated mentor, and gentle man whose unfettered enthusiasm for learning, teaching, talking science, and challenging the mainstay with his out of the box thinking for betterment of care was unmatched.

He truly loved being a physician and pediatrics. Dr. Kamen was one of those magical doctors who could completely engage and comfort an ill child with a three-minute fun game, while simultaneously completing a thorough neurological exam. He also conducted leading-edge research for more than three decades around folate biochemistry with the goal of reducing the negative side effects of cancer-fighting drugs. Dr. Kamen's clinical and research interests were driven by the overarching goal of "translational research"—taking best science to bedside.

ABOUT THE FUND

By selecting students who have excelled in a *FIRST* program, the Dr. Bart Kamen Memorial *FIRST* Scholarship Fund seeks to honor the legacy of Dr. Kamen by providing renewable monetary grants to undergraduates pursuing biomedical engineering or pre-medical degrees. Students who have, through their participation in *FIRST* programs, demonstrated the potential to develop Dr. Kamen's brilliance at, and extraordinary passion for, improving the lives of patients.

The Dr. Bart Kamen Memorial *FIRST* Scholarship Fund awards up-to four initial, renewable grants of \$10,000 to selected students. Initial grants are renewable for up to three additional years provided the student continues to meet the eligibility criteria for the grant.

DR. BART KAMEN MEMORIAL *FIRST* SCHOLARSHIP FUND RECIPIENT

YASH DULLA

2022 Dr. Bart Kamen Memorial *FIRST* Scholarship Fund Recipient

A formidable *FIRST* Tech Challenge competitor and established athlete and scholar, Yash Dulla is one of four recipients of this year's Dr. Bart Kamen Memorial *FIRST* Scholarship Fund. Yash's hard work and diligence in *FIRST* Tech Challenge has led him to receiving 1st Place at the Illinois State Championship; 1st in Illinois for Inspire, Think, and Connect awards, as well as qualifying twice for the *FIRST* Championship. His competitive nature, unparalleled enthusiasm and leadership translates to his on-field success as well. Being the team captain for his varsity golf team and the hype-man and strategist for his varsity lacrosse squad, he's a respected competitor in the world of athletics and academia alike.

Yash plans to take his talents to the next level, where he's planning on pursuing a degree in bio-medical engineering.



DR. BART KAMEN MEMORIAL *FIRST* SCHOLARSHIP FUND RECIPIENT



EGE TURAN

2022 Dr. Bart Kamen Memorial *FIRST* Scholarship Fund Recipient

Ege Turan is an outstanding scholar and salient member on his *FIRST* Robotics Competition team. Being at the top of his class and the lead engineer for his *FIRST* Robotics Competition team, it's no wonder he excels everywhere he goes. Ege, being the son of two doctors, has developed a passion for the human body. He's specifically taken an interest in innovative bio-medical engineering, seeing how some of today's modern medical breakthroughs are very costly and not readily available to low-income communities. Although he has already conducted research at the Ozyegin University Biomechanics Laboratory and the Research Science Institute, he's not done there. Ege's unselfishness, determination and unlimited academic potential makes him the perfect recipient of this year's Bart Kamen Scholarship Award, as Dr. Kamen embodied all the same things.

Ege's profound research was recognized by MIT and Harvard, who encouraged him to continue his research at the next level - which is exactly what he plans to do.

DR. BART KAMEN MEMORIAL *FIRST* SCHOLARSHIP FUND RECIPIENT

SHREYA MAHESH

2022 Dr. Bart Kamen Memorial *FIRST* Scholarship Fund Recipient

Shreya, a *FIRST* Tech Challenge legend and decorated scholar is one of the four Bart Kamen Scholarship recipients this year. During Shreya's time at *FIRST*, she has received two 2nd place Think Awards as well as receiving a 1st place Think award during her *FIRST* Tech Challenge tenure. To amass these great accomplishments, she has also received 1st in Protein Modeling as well as 1st in Experimental Design and 3rd in Ornithology for Science Olympiad Awards. Her experience working at the intersection of engineering and medicine during a STEM cells project opened her eye to the infinite possibilities of the two fields. Shreya embodies *FIRST* and Dr. Kamen with her insatiable nature for education, innovation, and achievement.



Shreya plans to further her education in neuroscience and vowed to never shy away from a challenge as it, "only enriches our understanding of medical treatments and discoveries worldwide." She plans to further her education in neuroscience.

DR. BART KAMEN MEMORIAL *FIRST* SCHOLARSHIP FUND RECIPIENT



DANIEL KOZLOV

2022 Dr. Bart Kamen Memorial *FIRST* Scholarship Fund Recipient

Daniel, a participant of *FIRST* Robotics Competition and exceptional scholar, is one of four recipients of this year's Bart Kamen Scholarship. When Daniel isn't busy working hard to ensure he's at the top of his class, he's taking on an exorbitant number of extracurricular activities to further his education as well as better himself and the people around him. From developing a wire cutter during COVID for a local manufacturer, to volunteering at the emergency department at a local hospital, his generosity, creativity, and leadership is reflective of *FIRST* and Dr. Kamen in every way imaginable. Daniel plans to continue his education in the pre-medical field where he strives to obtain his MD-PhD and guide his research using what he sees as a physician, just like Dr. Kamen did.

As part of FIRST robotics, Daniel has developed his fascination with innovation, leadership skills, community engagement, and career goals, as he hopes to promote technological progress in medicine.

DONATIONS AND DEMOGRAPHICS

WOODIE FLOWERS MEMORIAL GRANT

Total amount donated since its inception
fiscal year 2020.

\$298,670

"Woodie was one of the most gentle, thoughtful, kind, peaceable people I have ever encountered: an attentive listener, a thoughtful respondent, quick to laugh, impossible to anger, and radically human-centered in everything he did. I had admired him while a FIRST student in high school; when I got to know him well while working at MIT, he surprised me by being exactly the kind of person he had always seemed to be from afar, just more so. They say never meet your heroes, but I am here to tell you that Woodie is one of the single-digit number of heroes I have had who not only survived first-contact, but actually got better the longer and better you knew them."

- Chris Peterson, *FIRST* Alum, Director of Special Projects, MIT Admission



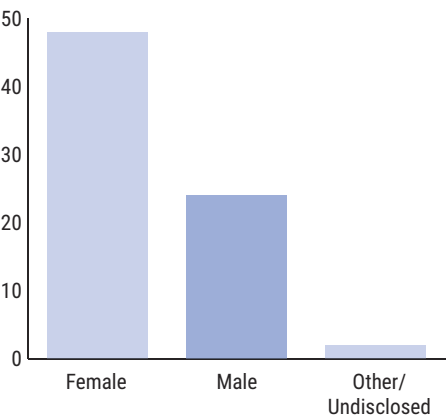
DONATIONS AND DEMOGRAPHICS

DR. BART KAMEN MEMORIAL FIRST SCHOLARSHIP FUND

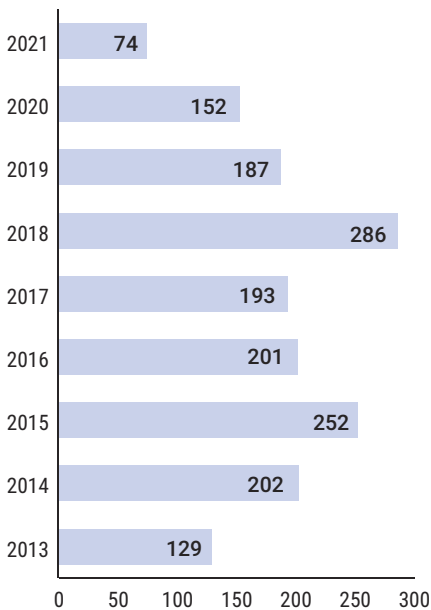
Total amount donated since its inception fiscal year 2013.

\$2,355,630

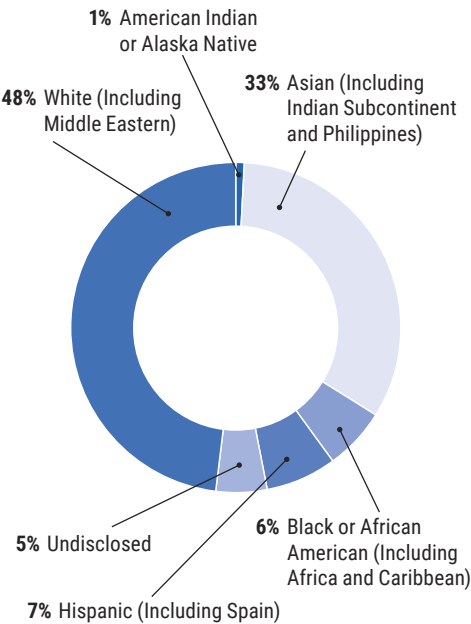
Applicant Gender (2021)



Number of Applicants



Applicant Ethnicity





WOODIE FLOWERS MEMORIAL GRANT CONTRIBUTORS

2020 - Present

John Abele

Bank of America Charitable
Foundation, Inc.

Bowers Consulting Co, LLC

Nikolas Charos

Lawrence and Tami Cohen

DEKA Foundation

Anthony and Judy Donovan

Walter and Judith Havenstein

Glenn Lee

Aaron Raphel

Kevin W. Ross

David Siegel

TripAdvisor LLC

Robert and Lynn Tuttle

Paul and Judy Ulland

Vincent and Jean Wilczynski

"In today's social environment, FIRST has a chance to re-define the larger economic and moral playing field. 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

DONORS



"There are some pediatric practitioners who need to distance themselves personally from their patients, in order to not 'bring their work home with them.' It's something I just can't do. Each one of my patients and their families are a part of me. And while I educate them and laugh with them, there are times where I also cry with them. By allowing myself to be human and interact with them in this way, I can truly treat them as an individual instead of just another case. I firmly believe that makes a huge difference in a child's outcome."

– Dr. Bart Kamen

DR. BART KAMEN MEMORIAL FIRST SCHOLARSHIP FUND CONTRIBUTORS**2013 - Present**

The Argosy Foundation

Armac Inc.

Bowers Consulting Co, LLC

DEKA Foundation

Frank DeLorenzo

Jay Duchin

Margaret Frankian

Bahi Ghazal

Lively Group

Tuan Hoang

Marc Hodosh

Robert Iles

Evelyn Kamen Trust

Kaplan Simons Family Foundation

George Lanigan

Richard Lanigan

Lloyd Lee

Minh Nguyen

Van Nguyen

Anne Ortwerth and Mary Gunter

Judith Peritz

Lois Sayrs

Dana and Kathy Seero

Marcia Smith Fleres

Linda Stone

Gary and Diane Tooker Family
Foundation

Maria Edith Tuiza

Toohey Law Group, LLC

Robert and Lynn Tuttle

James and Nancy Utaski

Josh Weston

Vincent and Jean Wilczynski

Sandi Willsey

Robert Worsham



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