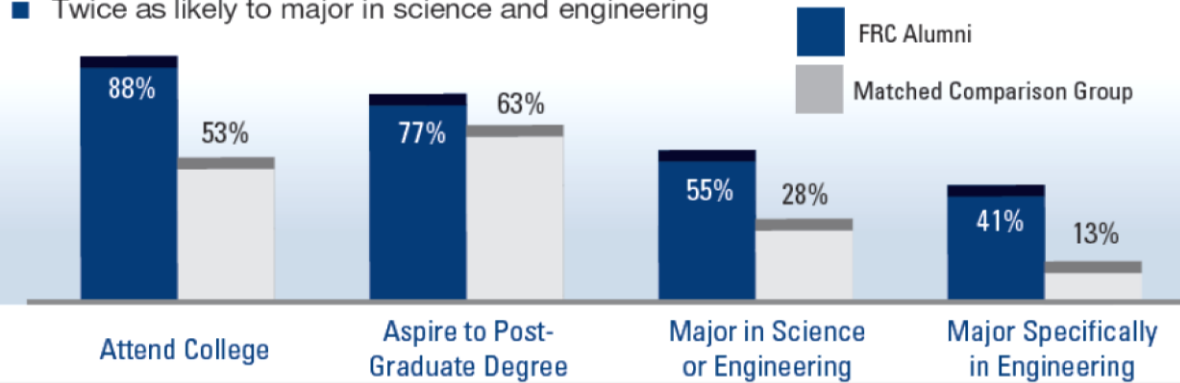


# Expand Career Opportunities For College

Compared to a group of students with similar backgrounds and achievement in high-school math and science, *FIRST* alumni are:

- Significantly more likely to attend college
- Twice as likely to major in science and engineering



# For Internships & Jobs

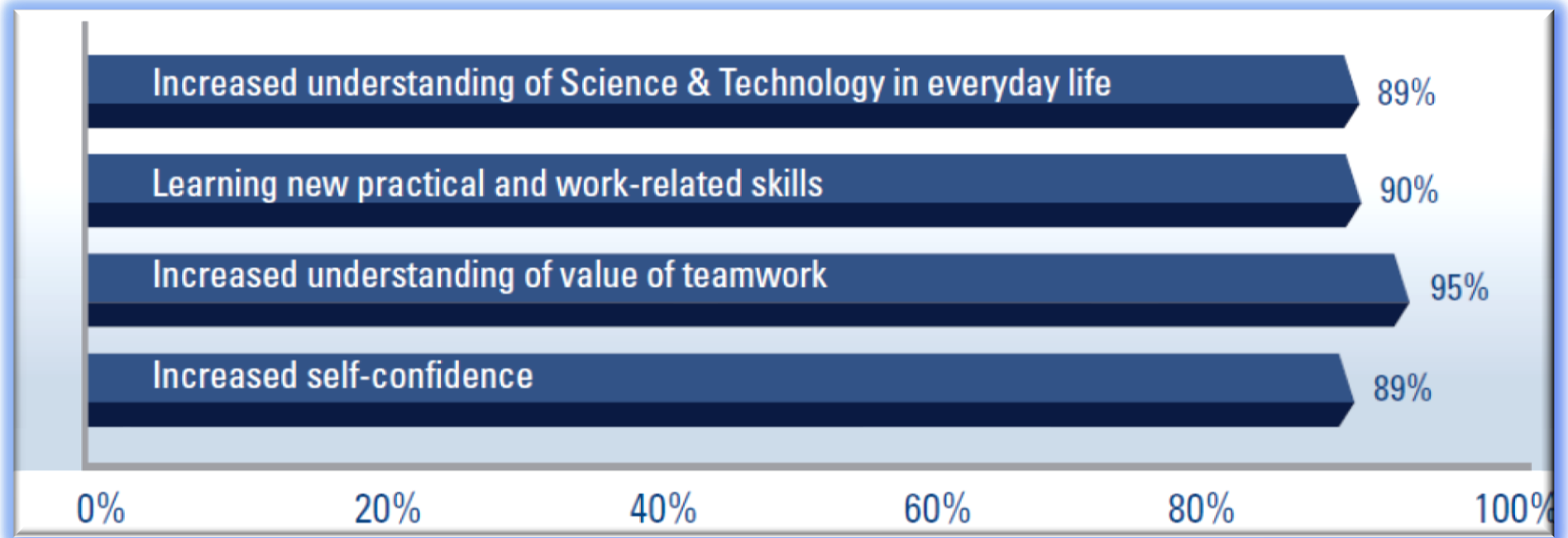
*FIRST* alumni are:

- 10 times as likely to have had an apprenticeship, internship, or co-op job in their college freshman year
- More than twice as likely to expect to have a science or technology-related career after college



# Develop Skills for Success

## Improvements from the Robotics Program (International Results)



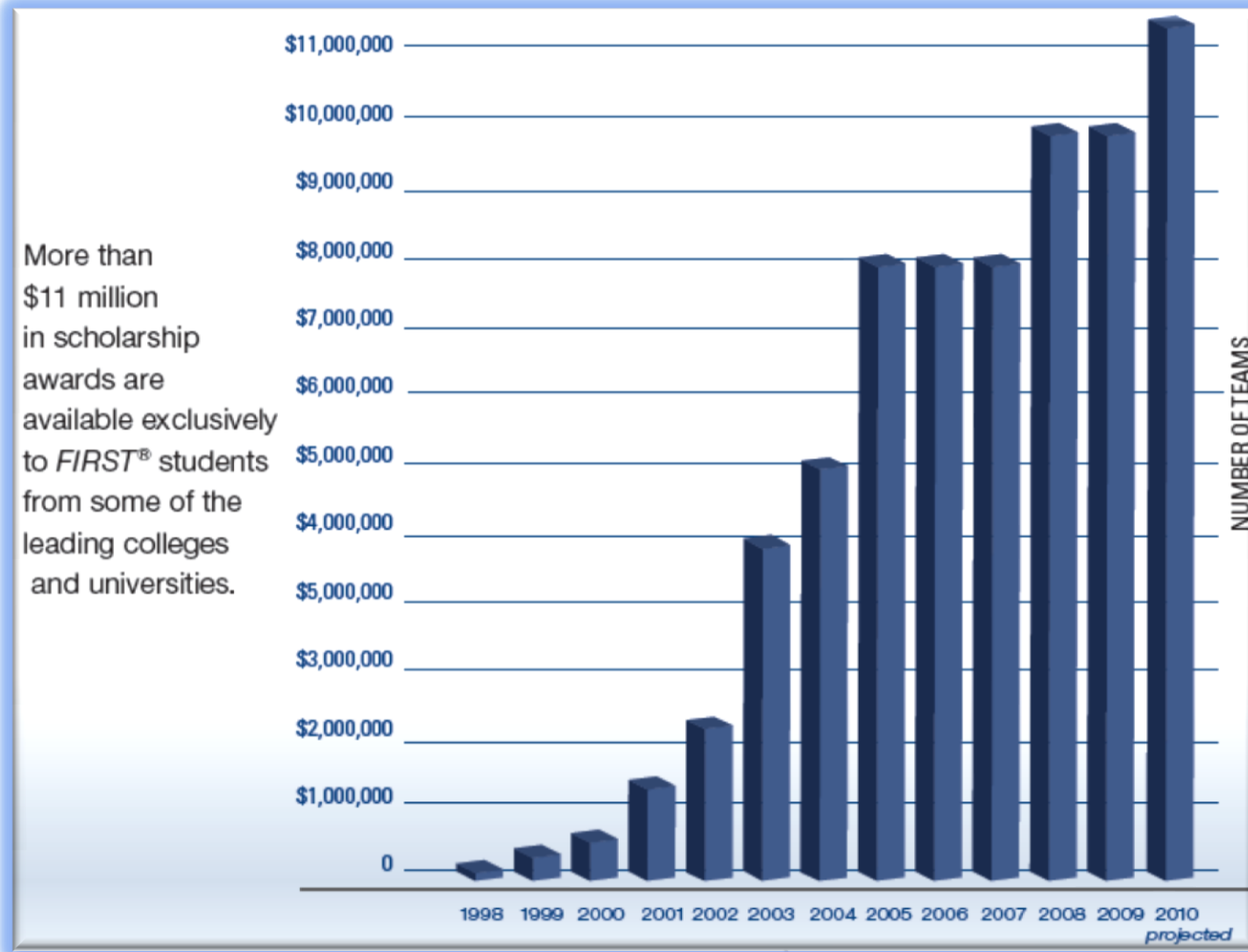
*“The most important part of the FIRST experience for me was being part of a team and getting to know, meet and interact with new people on a personal and professional level.”*

FIRST Alumnus

*“They get to go all the way from concept to competition and see their ideas play out. There’s nothing better as far as practical application.”*

Downingtown Area Robotics Parent

# Scholarship Opportunities



*“...[I] never even considered myself in the engineering profession and now I am at a college with a full tuition scholarship, studying to become an engineer.”*

FIRST Alumna

## Benefits of Becoming a Mentor

- Make a difference in students' lives
- Be a role model
- Share your technical and/or professional skills
- Empower the next generation of STEM professionals
- Network with like-minded citizens
- Help celebrate science & technology!

*“The students can teach me as much as I can teach them.”*

Downingtown Area Robotics FRC Mentor

*“Mentoring an FRC team has been a great way to keep my design skills current, while challenging my project management capabilities.”*

Downingtown Area Robotics Head Mentor

# Becoming a Mentor

1. Any adult is welcome, regardless of profession or skill set
2. Contribute as much or as little time as you'd like
3. Learn & practice new skills through Mentor Training
4. Join the team & start making a difference in kids' lives!

## Technical Areas

- Mechanical
- Electrical
- Programming
- Computer Aided Design
- Woodworking
- ...And many more

## Non-Technical Areas

- Finance & Fundraising
- Logistics
- Promotional Materials
- Media and Arts
- Animation
- Transportation
- ...And many more

*“Robotics is not just about the manufacturing of a robot, it takes community involvement and teamwork. It is not just our school’s robot, it is our town’s robot.”*

FIRST Student

*“FIRST isn’t about building robots, it’s about developing life skills. The kids learn skills in relationships, teamwork, finance, fundraising, budgeting and project management. The partnership between academia, the community and industry...will build our future employees and future citizens.”*

Steve Sanghi

Chairman of the Board, President & CEO Microchip Technology

# Benefits of Sponsorship

- **Builds** a technologically literate workforce
- **Increases** employee volunteerism
- **Provides** employee team-building and training opportunities
- **Renews** inspiration to company engineers and employees
- **Strengthens** company reputation in the community

*“The workplace of today and especially tomorrow needs a diverse group of individuals who are comfortable solving complex technical problems in a team setting. It is rewarding to see these skills demonstrated in abundance with such passion in the FIRST LEGO League.”*

Dennis Roberson  
Vice Provost of New Initiatives  
Illinois Institute of Technology

*“ I'm standing in front of some of the best and brightest in the U.S. and from around the world, and I know you're going to do things that people said could never be done.”*

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

## Sponsorship: How You Can Help

- Offer monetary and/or in-kind donations
- Involve employees as mentors and/or volunteers
- Provide equipment and facilities
- Offer scholarships
- Provide internships
- Enjoy recognition and hospitality benefits

*“At Motorola, our continued success depends on our ability to hire a world-class workforce. We know it’s critical for tomorrow’s workforce to be technologically literate. That’s why we are investing in FIRST.”*

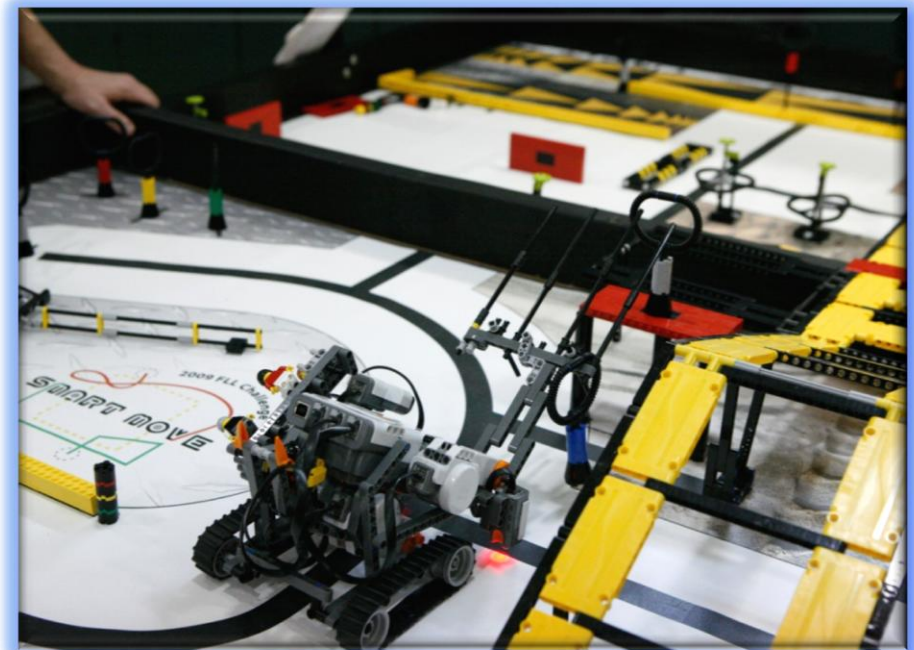
Gary Tooker  
Vice Chairman  
Motorola, Inc.

*“ ...this is the magic...generated by FIRST: the inspiring, unprecedented commitment from Xerox personnel, the intensity of intellectually stretching our students...and the positive social development of our young people so consistently promoted by Wilson teachers and their Xerox partners.”*

Principal Joseph C. Wilson  
Magnet High School, Rochester, NY

# FIRST LEGO® League

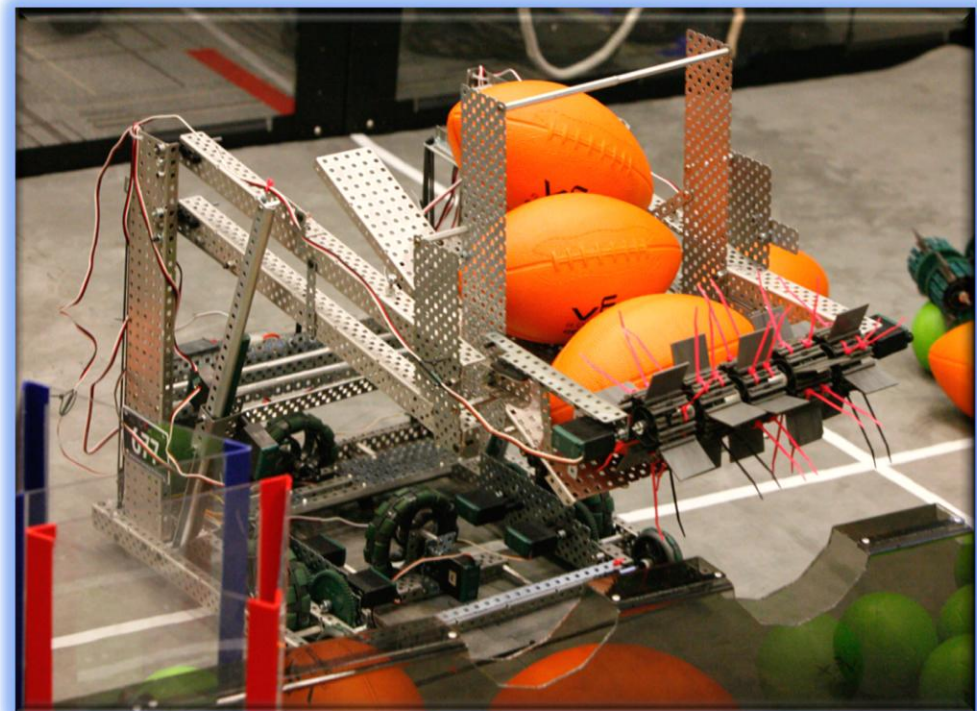
- **Enjoy** hands-on STEM activities
- **Discover** how STEM can help solve world problems
- **Learn** basic building, programming, research, writing & presentation skills
- **Apply** basic STEM principles to their own inventions
- **Get on the Fast Track** to STEM education & future robotics programs





# VEX Robotics Competition

- **Experience** imagining, creating & competing with their own ideas
- **Practice** cooperation, sportsmanship, problem solving & basic engineering documentation
- **Examine** engineering principles with minimal assembly
- **Apply** classroom principles to construct real devices
- **Experiment** with robot designs & tactics
- **Learn** basic mechanical skills by building the robot



# ***FIRST Robotics Competition***

- ***Employ*** teamwork, leadership, time management, sportsmanship & problem solving
- ***Strategize*** how their robot will compete, technically & tactically
- ***Prototype, Test & Analyze*** concepts, designs & tactics
- ***Design*** the robot in 3-D CAD
- ***Program*** the robot, controller & support functions
- ***Learn Mechanical & Electrical Skills*** from welding to vacuum forming and wiring to soldering
- ***Apply Their Work*** by testing the robot & training the drivers



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**95% Believe  
company's  
involvement with  
*FIRST* benefits firm's  
reputation**

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**77% Indicate their  
firm's support of  
*FIRST* made them feel  
more positive about  
their employer**

**66% Believe support  
for *FIRST* would help  
attract and retain  
good employees**

*"Robotics was the only thing in the entire year that I looked forward to all four years of high school."*  
Downtown Area Robotics Alumnus

*"Robotics has helped me determine who I want to be. Not just academically, but as a person."*  
Downtown Area Robotics Alumna

