

# Milford Area Youth Homeschoolers Enriching Minds

*"...to create a world where science and technology are celebrated.... where young people dream of becoming science and technology heroes..."*

FIRST Founder, Dean Kamen

MAYHEM is a volunteer, non-profit 501(c)(3) organization created to provide educational enrichment for students in the areas of science, technology, and engineering. Founded originally for homeschoolers who otherwise might not have such opportunities, MAYHEM is now made up of students from public and home schools.

FIRST® promotes:

- ⇒ Communication
- ⇒ Problem-solving
- ⇒ Task-ownership
- ⇒ Project Management
- ⇒ Academic Excellence
- ⇒ Gracious Professionalism®



## Our Hometowns

Peterborough  
New Boston  
Nashua  
Mason  
Mont Vernon

Milford  
Merrimack  
Lyndeborough  
Bedford  
Amherst

*"FIRST isn't just about robots, it's about developing life skills. The partnership between academia, community and industry...will build future employees and future citizens."*

Steve Sanghi, President and CEO Microchip Technology

## The Whole Team

FLL and FRC provide professionals with partnership opportunities to promote science, engineering, and technology for youth in their communities.

### Our Major Sponsors

DOROTHY GOULD COOK TRUST  
CIRTRONICS  
BAE SYSTEMS  
PTC  
ROCKWELL AUTOMATION

### Our sponsors are a vital part of our team!

The costs associated with FLL and FRC teams are substantial. Sponsors assist with registration fees, robot parts, tools, supplies, travel, mentors, and much more.

The value of the experience, knowledge, and skills gained by the students far outweighs the costs!

## Contact Us

- If you have students interested in joining MAYHEM
- If you would like to make a tax-deductible donation of materials, a work space, mentoring partnerships, or a financial contribution

The MAYHEM Teams  
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# What's with all the MAYHEM?



## About FIRST®

- ◇ FIRST (For Inspiration and Recognition of Science and Technology) is a 501(c)(3) not-for-profit public charity.
- ◇ FIRST designs programs to build confidence, knowledge, and life skills while motivating young people to pursue opportunities in science, technology, engineering, and math.
- ◇ FIRST was founded in 1989 by Dean Kamen.



## What is FIRST Robotics Competition?

- ◇ FRC® is an annual engineering robotic design challenge for high school students.
- ◇ Working with professional engineering and business mentors, students design and build a robot to compete in high-intensity tournaments.
- ◇ These tournaments measure the effectiveness of each robot, the power of team strategy, the importance of collaboration, and the determination of students.
- ◇ The program is a life-changing, career-molding experience impacting 83,400+ high-school students on 3,336 teams from 25 countries.

## What is FIRST LEGO® League?

- ◇ In FLL® kids ages 9-14 develop problem solving and teamwork skills as they design, build, program, and operate autonomous robots to meet the year's mission challenge.
- ◇ Teams are also judged on their research of a real-world problem and their ability to present the research in a creative way.
- ◇ Students apply math, science, and engineering concepts.
- ◇ In 2016, over 28,000 teams from 80+ countries participated.



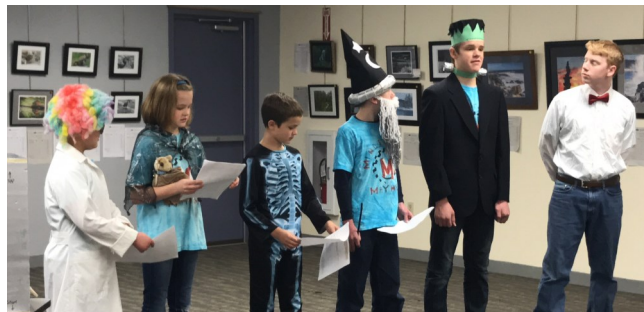
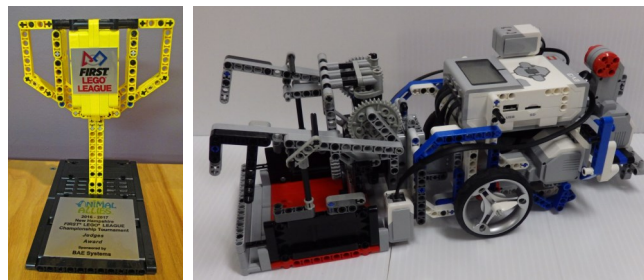
## First, team Mindstorms Mayhem...

Since 2002, Mindstorms Mayhem, a FIRST LEGO League (FLL) youth robotics team, has consistently impressed tournament judges at state and international competitions with their quality research projects, sophisticated design principles, and advanced programming of their robots. They have been an inspiration and role model to other teams.



*"FLL is a very social process that requires ingenuity, critical thinking, and collaboration. These are the very skills that make us successful adults."*

Devin Blizzard, Principal, Fresno, CA



## Then, team Mechanical Mayhem!

With winning the International FLL Championship in 2004 came a challenge grant from the LEGO Group for Mindstorms Mayhem to advance to the next level by creating a FIRST Robotics Competition (FRC) team. Team 1519, Mechanical Mayhem, was born and is now in its thirteenth year!



MAYHEM students develop the knowledge base and technical expertise to annually design, fabricate, test, and deliver a full-scale, 120-pound competition robot. In the process they gain other life skills such as leadership, accountability, and self-confidence.

## Awards and Achievements

- ◆ World Championship Finalists (2013)
- ◆ Regional Chairman's Award (2009 & 2016)
- ◆ Engineering Inspiration Award
- ◆ Tournament Champions 31 times
- ◆ FIRST Dean's List Finalists (6 students)
- ◆ Engineering Excellence Award
- ◆ Innovation in Control Award
- ◆ Entrepreneurship Award
- ◆ Rookie Inspiration Award
- ◆ Website Design Award
- ◆ Animation Award
- ◆ Team Spirit

