



The Lake Monsters

FIRST Robotics Competition Team 2635



What is FIRST?



For Inspiration and Recognition of Science and Technology

- Founded in 1989 by Dean Kamen with support of MIT and NASA
- Promoting Science, Technology, Engineering, and Math (STEM) education
- Worldwide organization
- Programs for students K-12





What is FRC?

FIRST Robotics Competition

- 2,720 teams from 16 countries
- Students are given 6 weeks to build a robot
- Students learn to use industry standard hardware and software from experienced professionals
- Opportunities to compete for awards in multiple areas and disciplines





FRC is for Everyone

- Every student can actively participate in FRC
- Critical roles for students in:
 - Mechanical and electrical engineering
 - Computer Aided Design
 - Fabrication
 - Computer programming
 - Research
 - Animation
 - Marketing
 - Public relations
 - Community outreach





Benefits of an FRC Team

- **FRC encourages students to go into STEM:**
 - 3x more likely to major in engineering in college
 - 4x more likely to pursue a career in engineering.
 - 9x more likely to have an internship in their first year of college.
 - Female FIRST alumni 4x more likely to go into engineering fields of employment, and minority students go into those fields twice as much.
- **Provide a supportive community for students**
 - Welcome all students
 - Presents high school students with a unique opportunity to apply their knowledge



Benefits of an FRC Team

- FRC helps tie classroom learning to real-world application
 - FRC alumni reported an increased understanding of the role of science and technology in everyday life
 - 86% percent reported an increased interest in science and technology
- FRC has a positive impact on the students:
 - 90% of students reported an increased self-confidence
 - 70% reported an increased motivation to do well in school



LAKE MONSTERS Robotics

- Seventh Year Team
 - Founded by Lakeridge Science Teachers
- 15 students in 2014 season (FRC average is 20)
- 2014 Judge's Award recipient
- This year's winners of Rookie Rumble and Bunny Bot



Team Contributions to the Community

- Donated thousands of dollars worth of robotics equipment to our school
- Hosted an Intro to Robotics summer class
- Raised awareness at Farmers Market



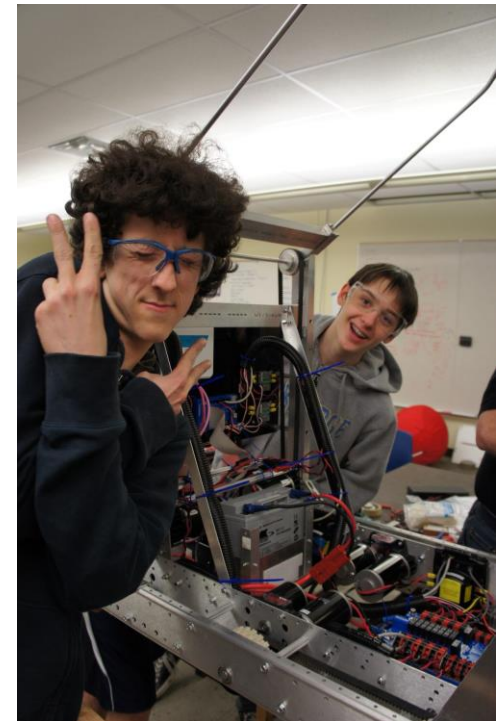


Building Relationships



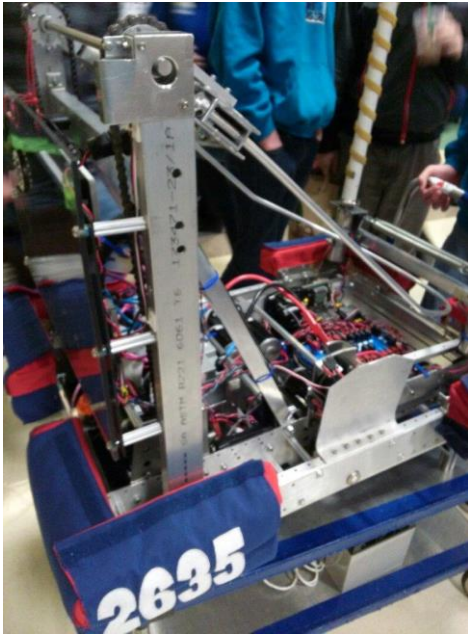
- Working with a team
 - Provides great experiences working with different kinds of people in fast-paced environments

- Mentoring by industry professionals
 - Computer and electrical engineering, mechanical engineering, marketing
- Working with other FRC teams
 - Networking, marketing, and building alliances





Team Goals



- Bring in more students
 - 50% increase over 2013-14 school year
- Become an integral part of the school community
- Develop marketing and business aspects of team
- Qualify for the world championship



In the Media

- Oregonian:
 - [At the 2013 competition](#)
 - [Women in engineering](#)
- In the Lake Oswego Review
 - [Frisbees are Flying](#)





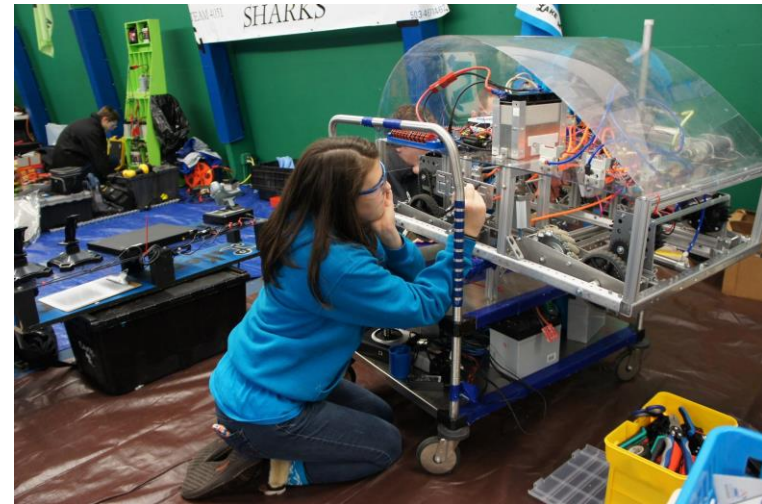
FIRST Student Opportunities

- Scholarships

- More than \$16 million available
- 150 Scholarship Providers
- 750 Scholarship Opportunities

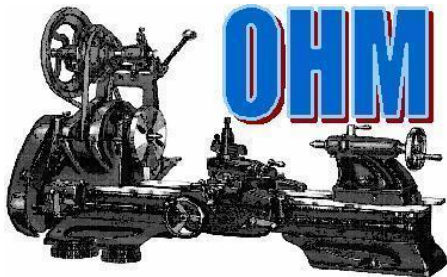
- Internships

- Autodesk
- Mentor Graphics



- College admission officers recognize FIRST

Our Sponsors



FRC:

The Varsity Sport for the Mind