



Tournament &
Outreach Program

ORTOP FTC PROGRAM OVERVIEW

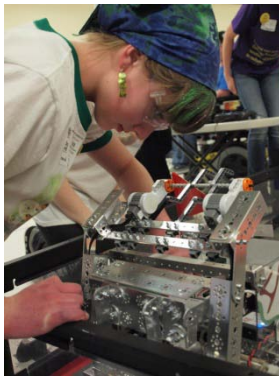
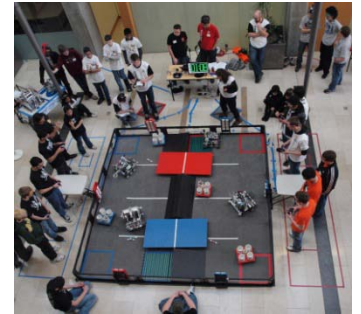


Mission

To open doors to the worlds of science and technology for Oregon's youth, and encouraging those who might not otherwise participate because of their ethnicity, race, gender, or socio-economic status.

FIRST Tech Challenge

- **Involves** High-School students and older middle school students.
- **Utilizes** the affordable and accessible Tetrax Robotics Design System.
- **Documents** the season with an engineering notebook
- **Encourages** inter-team cooperation through "alliances" at tournaments.
- **Teaches** students to experiment and overcome obstacles.
- **Builds** self-esteem and confidence.

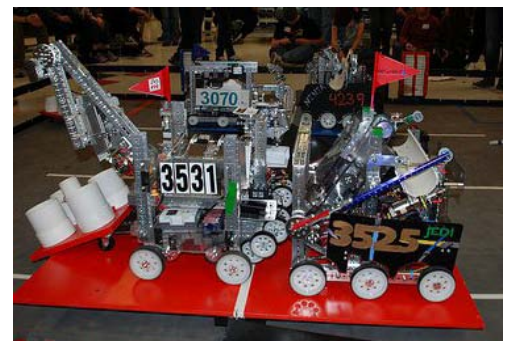


FTC Teams

- **Participate** as a team of 10+ students with 2-3 mentors.
- **Develop** problem-solving, organizational and team building skills including development of an engineering documentation notebook.
- **Solve** complex problems using the Tetrax robotic system to navigate autonomously with sensors, manipulate small objects and travel over uneven surfaces.
- **Use** a sustainable reusable kit of parts with servo motors, multiple controllers, some team manufactured parts and a variety of programming platforms.
- **Emulate** design elements of robots used in civic and commercial applications.
- **Qualify** for college scholarship funds.

Oregon Robotics Tournament and Outreach Program

- **Involved** 500+ students on 74 FTC teams in Oregon and SW Washington in 2010/2011.
- **Partners** with schools, youth organizations and community organizations and universities to engage youth and connect them with higher education opportunities.
- **Provides** scholarships to teams that could not otherwise participate.
- **Delivers 8 full-day workshops** for team members and coaches.
- **Holds** 6 Qualifying Tournaments and a Championship Tournament.



For Inspiration and Recognition of Science and Technology (FIRST®)

An international non-profit organization, *FIRST®* (For Inspiration and Recognition of Science & Technology) organizes an annual network of robotics tournaments. Its mission is to inspire young people to be science and technology leaders, 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.