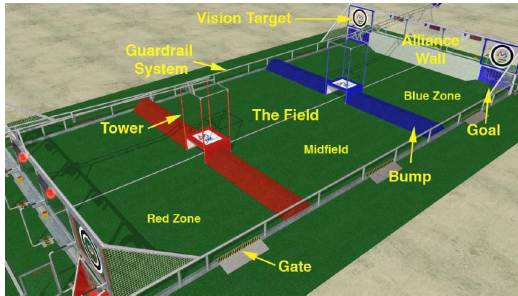


The 2010 Competition



"Breakaway" is played on a 54' x 27' field divided into three sections by 13.5" tall carpeted bumps with 18" tall tunnels that divide each bump. Two alliances (red and blue), made up of three teams each, compete in each match. The goal is for each alliance to score points by shooting balls (1pt) into the two goals (of four) on that alliance's side of the field. Scored balls must be re-fielded by the human players within 11-15 seconds via the ball return overhang. At the end of the match, alliances can score bonus points by lifting their robot above the platform (20") of their alliance's 7-foot tall tower for 2 points. If a robot from the same alliance lifts itself from a currently elevated robot, it gains that alliance 3 points.



Competitions are amazing! The teams go **CRAZY**, more so than any other sporting event that you have ever been to. Students and mentors

are painted up and dressed up and everyone has a blast!

www.penfieldrobotics.com

More Than Just a Robot



Teams from 12 countries around the world including the U.S., Canada, Brazil, Israel, Ecuador and Great Brit-

ain will compete in the competitions. Students are provided with the opportunity to not only work with engineering mentors, but to network with thousands of other students from around the world and obtain scholarships from major engineering colleges across the United States.

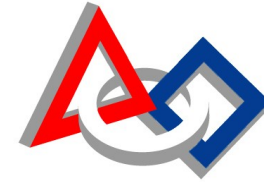
On our team there is a place for everyone. We have 10 different subteams: Flare, Webpage, Strategy, Leadership, Animation, Corporate, FLL/JrFLL, Programming, Mechanical, and Electrical.

We dedicate the bulk of the preseason to team-building activities and developing our team's skills. The result of this is that our team becomes more than just a club, we become a family, and individually we become better people. Our team has very high standards. We expect the best from everyone and we push each other and ourselves. In the words of one of the FIRST founders, Woodie Flowers, "this is the hardest fun you will ever have."



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FIRST®

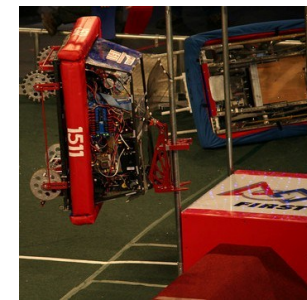


What Is FIRST? HARRIS

FIRST stands for "For Inspiration and Recognition of Science and Technology." It is an acronym which defines not only a robotics competition, but a way of providing students



and mentors alike with the opportunity to experience everything that goes into a true engineering project. The competition itself is based around a 6 week design and build period where teams get a kit of motors and miscellaneous building parts and a "task" in early January that is different every year. From that point, all teams have exactly 6 weeks until they must ship their robots to the initial event. Teams then compete in hectic 3-day Regional events in preparation for the Championship.



The History of FIRST

The F.I.R.S.T. competition was founded by entrepreneur and inventor, Dean Kamen, in 1992. It started with a small competition of 28 teams in Manchester, NH.



"A society gets what it celebrates," says Dean Kamen, acclaimed inventor of the Segway Human Transporter and holder of more than 150 patents related to medical devices, climate control systems and helicopter design.



"In today's world, we need to be celebrating the technical and scientific prowess of our young people." Dean's goal is to inspire young people to look up to engineers the way that they often looked up to professional athletes. As of 2010, the competition has grown to well over 1800 teams competing in 44 regional events and a championship event at the Georgia Dome.

www.penfieldrobotics.com
TEAM 1511

The Penfield/Harris FIRST Team & Getting Involved

2010 is the sixth year for the Penfield High School & Harris Corporation FIRST Robotics Team. With 37 students and 26 mentors and parents, the team has accomplished so much! This year, 6 of our 7 graduating seniors are attending college to pursue a science or engineering career.

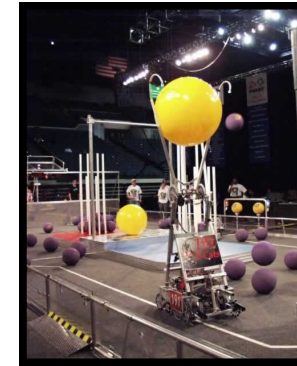
In the past 6 years, the team has won 25 awards including 3 Chairman's awards, 4 Engineering Inspiration Awards, Regional Winner, Regional Finalist, Championship Judge's Award, Coopertition Award and World Championship Rookie All Star Award!

1511 will compete at the Finger Lakes Regional at RIT, Early March. We will also compete at Championships in St. Louis Missouri, Mid April. We wish all the teams competing next year good luck!

To get involved with the 1511 FIRST Robotics team, please contact Larry Lewis at [585-242-4479](tel:585-242-4479) or llewis12@harris.com or Eric Brewer in the Technology Department at Penfield HS.



Rochester FIRST



In 2004, Rochester was home to 8 competing FIRST teams with sponsors like Xerox, Kodak, Bausch & Lomb, RIT, and Gleason Works. High Schools included Edison Tech, Wilson, John Marshall

HS, Churchville-Chili, Fairport, Webster, Charles Finney, and the Global Media Arts HS. In 2010 there are now over 30 teams in Rochester!



One of the FIRST Regional competitions is held at RIT in the Gordon Field house right here in Rochester! The 2011 event will be held in March and is open to the public! Keep an eye out till then for local demonstrations held by 1511 and other local teams!
www.usfirst.org



**Rochester
Regional
March 2011
RIT**