



## Huntington Robotics, FRC Team 5016



2<sup>nd</sup> meeting - September 30<sup>th</sup>, 2015

Team Captain – Jacob Strieb  
Primary team advisor: Mr. Reynolds  
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**FIRST** – For the Inspiration and Recognition of Science and Technology, as close to “real-world engineering” as possible, referred to as the “varsity sport for the mind”

<http://usfirst.org/>

Every year Huntington Robotics participates in the FIRST Robotics Competition (FRC)

**Scholarships** – Every year FIRST participation makes students eligible for over \$22 million in scholarships across 900 individual scholarship opportunities of varying payment amounts from nearly 200 scholarship providers including universities like MIT, Yale, WPI, Boeing, Bucknell, Drexel, Boston University, and many others. Some of the scholarships even cover the full 4 years of tuition and not all of the scholarships are exclusively for seniors.

<http://usfirst.org/scholarships>

<http://usfirst.org/alumni>

**Year Overview** – Pre-season (now), kickoff on January 9<sup>th</sup>, build season lasts from kickoff until February 23<sup>rd</sup>, competitions start March 10<sup>th</sup> and run intermittently until April 30<sup>th</sup>.

**Competition** – Each school involved is a robotics “team,” with teams competing with 2 other teams and against 3 other teams (known as “alliances”) in any given round of competition. There is a different, new challenge (also known as a game) that robots must be able to participate in every year.

**Regional Competition** – The primary regional competition that Huntington Robotics competes in is the regional run by the organization known as School Business Partnerships of Long Island (SBPLI). The first day is a practice day in which the robots compete but no rounds count. The second and beginning of the third day consist of qualification matches in which the team is randomly paired in alliances with and against teams that are unknown until the day of competition. On the third and final day, championship matches are held in which the top 8 seeded teams pick their alliances and compete in a bracket until only one alliance of 3 teams is left victorious.

**HHH Invitational** – Off-season competition hosted by the HHH Thundercolts (team 3624) at Half Hollow Hills West High School on November 14<sup>th</sup>. The invitational is the last opportunity to compete with the robot from last year, and it is the first taste for new team members of what the regional competition will be like (albeit on a much smaller scale). The old robot will have to be fixed up to be ready for competition. Last year Huntington Robotics won 1<sup>st</sup> place at the invitational. As such everyone who can come should attend!

**Last year’s competition** – Known as “Recycle Rush,” last year’s competition involved stacking recycling “cans” and “totes” on top of one another as high as possible to earn points. Totes earn simple points and cans act as multipliers, and the total cumulative score from qualification rounds determined seeding.

Huntington Robotics’ robot was a can-stacking robot and was the only one of its kind at the regional.

**Skills taught by Huntington Robotics** - Math (algebra, geometry, trig, calculus), science (physics, experimentation), language arts (writing, public speaking), business (marketing, PR, fundraising), finance (accounting), computer science (programming, 3D animation), fabrication (woodworking, metalworking), mentorship (working side-by-side with professionals), teamwork

**Stats** - FIRST Alumni are significantly more likely to attend college, 3x more likely to major in engineering, 9x more likely to have an internship in freshman year of college, 4x more likely to pursue a career in engineering



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**Upcoming Dates** – Meet the teacher night: Thursday, October 1<sup>st</sup>; next meeting (workshops begin): Wednesday, October 7<sup>th</sup>; Safe Halloween: Friday, October 30<sup>th</sup>; HHH Invitational Competiton: Saturday, November 14<sup>th</sup>; Kickoff: January 9<sup>th</sup>

**Leadership positions** – Leadership positions require an application and subsequent election. Application consists of a single paragraph written similarly to a letter of intent. At an upcoming election meeting, paragraphs of candidates will be read and a vote will be held. If someone who held a position last year is running for that position again, they are likely to get it. Freshmen are encouraged to run for all positions. Each group on the team needs a leader so there is a leadership position available for each group. There are also some alternative positions (social media coordinator, website manager, etc.). All positions with detailed descriptions of their responsibilities are listed in the team business plan (which is like a team handbook) and can be found on:

<http://team5016.com>

**Groups** – Team responsibilities are managed by the following groups:

- Electrical
  - Put together electronic control board for robot
  - Work with wires and stuff
- Mechanical
  - Design and build unique robotic mechanism
  - Work with power tools and stuff
- Programming
  - Write code for autonomous robot and add teleop features
  - Work with computers and stuff
- Drive team
  - Drive the robot in competition
- Marketing/Public Relations
  - Do sponsorship pitches
- Finance
  - Manage team funds
- Safety
  - Keep everyone safe

The team still needs mentors (which can come as family friends, parents, etc.) with or without a technical background, parents who are looking to get involved, sponsors who can help the team out with monetary or in-kind donations, and, of course, committed team members.

For more information and some videos and photos, visit <http://team5016.com> or contact any of the people listed in the page header.