



Grizzly Robotics

2018 Parent Orientation Meeting



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- Thursday, Dec 7, 2017 & Saturday, Dec 9, 2017
 - Agenda
 - Team Handouts
 - Grizzly Robotics Overview
 - What is FIRST Robotics Competition?
 - 2018 Season Schedule
 - Fundraising
 - FRC Student Team Information System (STIMS) Sign-Up



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- YCHS Emergency Contact Form – Complete and Return to Mr. Heister
 - Team Schedule
 - Team Contacts



- Grizzly Robotics was founded in 2014 after the merger of the robotics teams from Willow Run Community Schools and Ypsilanti Public Schools
 - Team 66 was founded in 1998 as a combined Willow Run/Ypsilanti team
 - Team 470 was formed in 2000 after the Ypsilanti High School branched out and formed its own team
 - Both teams continue to compete today as one robotics program, Grizzly Robotics

- Grizzly Robotics' Mission:
 - Foster self-confidence, critical thinking, communication, and leadership skills in our members by engaging them in Science, Technology, Engineering and Math (STEM) based activities.
 - Introduce Students to engineering and business concepts through management, design, and construction of robots that compete in the FIRST Robotics Competition (FRC).
 - Our goal is to impact our community and culture by inspiring students to pursue higher education and careers in STEM.

- Students work directly with volunteer Mentors from STEM and business fields
 - Many of our mentors are Willow Run and Ypsilanti alumni who have returned as a way to give back to our community
 - Others are community members who have heard our story and have been inspired to donate their time



- Grizzly Robotics' Recognition and Accomplishments
 - 2014:
 - Judges' Award
 - Entrepreneurship Award sponsored by Kleiner Perkins Caufield and Byers
 - Imagery Award in honor of Jack Kamen
 - Quality Award sponsored by Motorola
 - Engineering Inspiration Award
 - 2015:
 - Industrial Design Award sponsored by General Motors
 - Entrepreneurship Award sponsored by Kleiner Perkins Caufield and Byers
 - Escanaba District Event Winner
 - Top 10 Ranking out of 400+ Michigan teams
 - 2016:
 - St. Joseph District Chairman's Award Winner
 - Team Spirit Award sponsored by FCA Foundation (at 2 events!)
 - Entrepreneurship Award sponsored by Kleiner Perkins Caufield and Byers
 - Ann Arbor Skyline District Event Finalists (Team 66)
 - Michigan State Championship Regional Chairman's Award
 - 2017:
 - St. Joseph District Chairman's Award Winner
 - Michigan State Championship Regional Chairman's Award



- **What is FIRST Robotics Competition?**
 - FIRST is an acronym of “For Inspiration and Recognition of Science and Technology”
 - Founded in 1992 by Dean Kamen (inventor of the Segway) as a way to get young people to recognize STEM in the same way sports, music, and media is celebrated.
 - Called “The varsity sport of the mind.”
- **FIRST teams must design and build a new robot capable of competing in the unique design challenge for that year.**
 - Teams have 6 weeks to analyze the challenge, decide on a game strategy, and then come up with a robot design to play the game according to their strategy.
 - Typically, two “alliances” of three teams compete in 2 ½ minute matches. Competitions consist of a number of qualification matches to determine playoff seeding, followed by a playoff to determine winners
 - 2018 Game is called “FIRST Power Up”. Teams will find out game and robot rules on Jan 6, 2018.
- **FIRST is “More Than Robots”**
 - Teams run like small businesses, so students also can be involved in marketing, business and community outreach functions as well as science and technology.



- As part of a FIRST Team, students benefit from:
 - Experience a fun and exciting application of math and science, which we find inspires students to do better in school.
 - Increased self-confidence, critical thinking, communication, and leadership skills
 - Hands on experience with tools, concepts and processes used in “real world” business and tech fields
 - Networking with mentors and volunteers from major colleges and universities, as well as major corporations
 - FIRST students are eligible for 200 scholarships worth over \$50 million, not available to non-FIRST students
 - An experience that looks great on a college application or resume



- **Student Expectations**

- Students should follow team rules and behave in a SAFE manner at all times.
- Academics always comes before robotics.
- Respect fellow students, mentors, and volunteers.
- Be good representatives of our school and community.

- **Gracious Professionalism**

- FIRST uses the term “Gracious Professionalism” (GP) to describe the set of beliefs that should guide its participants’ actions.
- Respect others and let that respect show in their actions (this is being gracious)
- Possess special knowledge or talent and are entrusted by society to use that knowledge wisely (this is being a professional)
- Gracious Professionals blend knowledge, pride, and empathy in a way that is respectful and pleasing to themselves and others



- yecsrobotics.org – Team website
- Team Facebook group
 - Ask to join the private group “Members of Ypsilanti Community HS FIRST Robotics Program”
- Slack group
 - Download the “Slack” app to your phone
 - Contact cdlesser@gmail.com or thmeans06@gmail.com and let us know who your student is and that you would like to be added to the Slack group “ychsfrcbuild”.
- “Robotics Students” Remind group
 - Class code: @dheiste
- Email
- Group Text



- **Kickoff**
 - Saturday, January 6
 - 8:30 AM: Meet at YCHS, travel to U of M North Campus
 - 9:00AM to 11:30AM: Kickoff Presentation at U of M
 - 12:00 PM: Arrive back to YCHS
 - 12:00PM to 1:00PM: Lunch
 - 1:00PM to 6:00PM: Strategy
- **Build Season Regular Schedule (Starting Jan 8)**
 - Tuesdays and Thursdays:
 - 3:15PM to 6:00PM: Tutoring/Homework
 - 6:00PM to 9:00PM: Full Team Build meeting
 - Monday, Wednesday, and Friday
 - 3:15PM to 6:00PM: Tutoring/Homework
 - 6:00PM to 9:00PM: Small Team Build meeting
 - Saturday
 - 10:00AM to 6:00PM: Full Team Build meeting
- **Some meetings will happen outside of regular hours due to deadlines, etc.**
 - Students **MUST** notify and get permission from parents if staying late.



- **District Events**
 - St. Joseph HS, St. Joseph, MI: March 8 – 10, 2018
 - Lincoln HS, Ypsilanti, MI: March 15 – 16, 2018
 - Belleville HS, Belleville, MI: March 22 – 24, 2018

- **Michigan State Championship***
 - Saginaw Valley State University, Saginaw, MI: April 11 – 14, 2018

- **FIRST Championship – Detroit***
 - Cobo Arena/Ford Field, Detroit, MI: April 25 – 28, 2018

* If we qualify



- Grizzly Robotics is self-funded through grants, corporate sponsors, and student fundraising.
- Team has set a per-student fundraising goal of \$700
 - Goal is that no students should have to cover costs “out of pocket”.
 - Student fundraising covers:
 - Team Uniforms
 - Meals at competition events and while traveling
 - Student hotel costs for travel events (8 nights if we qualify for States and Worlds)
 - Transportation costs to competition events
 - Robot/Team expenses not covered by corporate sponsors, grants, etc
- Team is willing to help students based on need, but students need to show some effort participating in fundraisers
- Some fundraising ideas:
 - Participate in team fundraisers
 - Get a new business/corporate sponsor
 - Organize a bottle drive
 - Ask a relative/friend for a sponsorship
 - Etc.



- Ongoing/Upcoming Team Fundraisers:
 - Amazon Smile
 - Scrip Cards
 - December 9: Spaghetti with Santa @ YCHS, 3PM to 6PM
 - \$7 per person, \$30 for a family of 6
 - Students selling tickets get credited for their ticket sales
 - December 20: Depot Town Aubree’s Dine to Donate
 - Share the flyer with your friends and family!
 - January 26: Bowling Night @ Lodge Lanes, 5:30PM Check In
 - \$20 per person, includes shoes, 3 frames of bowling, pizza, pop
 - \$50 lane sponsors
 - Students selling tickets get credited for their sales
 - March 31: “Heister Bunny” Pancake Breakfast @ YCHS
 - Ticket cost TBD
 - Students selling tickets get credited for their ticket sales
- Fundraiser suggestions welcomed!



- We need your help!
 - Volunteers to plan and help run fundraising events
 - Volunteers for a couple Saturdays/Weeknights to build field components after Kickoff
 - Volunteers for team spirit materials (buttons, signs for the stands, etc)
 - Provide a dish for a team meal (spaghetti, Sloppy Joe's, chili, etc)
 - Many other tasks!
- Link to online sign up (Sign Up Genius) will be posted to website soon, or contact a mentor!



- Robotics Room: 734-221-1273
- Scott Heister – Teacher/Lead Mentor
 - heister@umich.edu
- Brian Skogheim – Teacher/Coach
 - bskogheim4@yoschools.us
- Tommy Means – Coach
 - thmeans06@gmail.com
- Chris Lesser – Lead Technical Mentor
 - cdlesser@gmail.com
- Stacey Egnor – Fundraising Coordinator
 - stacey.egnor@gmail.com
- Beth Darnell – 501(c)3 President
 - beth.darnell@yahoo.com