



Team 3641 : The Flying Toasters

South Lyon High Schools Unified Robotics Team

www.theflyingtoasters.org

"Building Bridges and STEAM-ing Ahead to a Better Future"



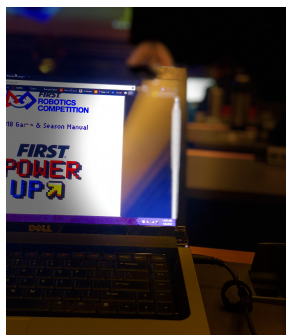
"To inspire and intrigue, unite, and achieve greatness"

2018 Challenge : FIRST[®] Power UpSM

Issue #1 Build Season - January 2018

Kick-Off:

Kickoff was held on January 6th for all of the FIRST Robotics Competition teams. It was live streamed on Twitch for every team around the world to watch together. Kickoff is when FIRST releases the challenge for the season. This challenge details what the rules and objectives of the competition will look like, and gives teams the basic guidelines for what the robot has to do. Following kickoff, teams get six weeks to build the robot--no more than that! It also has to fit certain weight and budget constraints in order to make the game fair all teams. The University of Michigan was kind enough to invite our team to the Saturday kickoff event and a Sunday planning and strategy session.



Power Up:

The name of the 2018 game is Power Up! The theme is based off of retro arcade games. The main objective is to be able to move the Power Cubes to the scale and switch in order to tip it into your possession. For more information, watch the official FIRST game video here:

<https://www.youtube.com/watch?v=HZbdwYiCY74>.



Machining:

With only six weeks to plan, design, prototype, and finally machine and assemble a robot from scratch, machining is an important part of the Build Season. The Toasters have a machine shop at South Lyon East, the high school where the team holds meetings. This allows for the students (supervised and assisted by mentors), to machine all of the parts themselves during meeting times. This is an invaluable experience for team members to learn how to problem solve and work with their hands. Some of the individual parts they have to machine are the intake, chassis, lift, and climbing mechanisms.

Upcoming Events!

- Feb. 20th, Bag and Tag
- March 2nd, Palmetto Competition
- March 16th, Ypsilanti Competition
- March 30th, Livonia Competition



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Outreach:

Outreach is a major part of The Flying Toasters. The team participates in both STEM-related and non-robotics affiliated activities in order reach out ot the community and spread the message of FIRST. They have participated in several events this year (see right column) and have a big event planned for later this year. They are working on hosting a Girl Scout Night to help 80 Girl Scouts to earn the three robotics badges, and are planning FLL and Jr.FLL interest meetings for the spring. They are always hosting STEAM classes, and have even created a bound copy of all the different STEAM activities that the team uses for these events.

Recent Outreach:

- School Board Presentation: June 5th
- FLL Interest Meeting: May 16th
- STEAM Class: September 21st
- Tuesday Club Presentation: October 10th
- Hardy Hands-On-Museum Night: Jan19th
- Bartlett Family STEM Night: January 31st

Upcoming Outreach:

- Blessings in a Backpack
- Girl Scout Night
- Spring STEAM Classes
- Families Building Faith

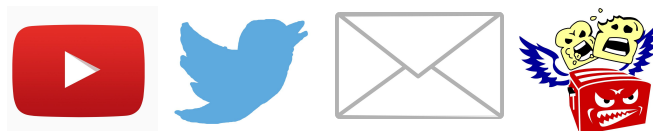


Chairman's:

With the Chairman's Submissions due February 8th, the team is working to finish editing and fine tuning the essay and executive summaries. The second children's book has been drafted and translated into Spanish, and the illustrations are coming along. Furthermore, the Impact Study is nearly finished for the year. All that is left is the presentation and competition materials.



For More Information:





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Sponsor Spotlight On: Cybernet

Cybernet has been with the team from the start, and continues to support the Toasters every year! They are a true part of the Toaster family.

The Flying Toasters would like to give a final thanks to our 2017 sponsors! Their support comes in many shapes and sizes such as monetary support, material donations, or offers to mentor our team. They are the much needed help to push our team forward and continuing to do our best to succeed.

**TEAM 3641
THE FLYING TOASTERS**



Kevin Whitehead • Bhaveshkumar & Ragini B. Kothari • Douglas & Julie Meidt • Harikrishna & Radhika Pemmada
Michael & Deborah Martin • Sreedhar Yedlapati & Neelima Yedlapati • South Lyon Residents • Gary A. Goldberg PLLC
Jonathan & Tara Richardson • William & Karen Schmidt • Glenn & Lynn Martin • Brian & Lynn Snider
David & Jennifer Shifferd • Shane & Amanda Giebel • Charles & Terri Settino • Jim & Janet Sicoli

Achievements and Awards:

- Started eight FLL teams in the community!
- Ran second annual FLL competition!
- Finalists and highest scorers at Bloomfield Girls 2017!
- Won Bloomfield Girls Competition at the end of the 2016 Season!
- Placed 8th at Howell!
- Competed at States!



For More Information:

