

SOUTHWORKS ROBOTICS ENGAGEMENT GUIDE



Photo from Manufacturing Day 2016 at Bloom High School



BRIEF COMPETITION DESCRIPTIONS:

SUMO Survivor

- *Your Goal: Each radio controlled robot has to find its opponent and cast it out of a 12 foot diameter ring in 3 minutes.*

Catapult Launch

- *Teams will have 3 attempts to launch their projectiles in an effort to land them in the center of 2 separate circles:*

ROBO Pathfinder

- *Your Goal: Build a robot that will successfully follow a line on a timed course and react to motion, light, or touch.*

VEX Robotics

- *Students will compete in timed competitions designed by club advisors and industry partners using VEX Kits.*

Autonomous Racer

- *Teams will build a robot that can compete a 20 feet straightaway course for the FASTEST time. There are 2 options available to compete: No electricity OR Raspberry Pi controlled.*

TETRIX Robotics

- *Students will compete in timed competitions designed by club advisors and industry partners using TETRIX Kits.*

THE NEXT STEPS: PROGRAM GUIDLINE

Thank you all for donating your time and resources to this effort! We have successfully completed Manufacturing Day 2016 and now we have established company sponsorships of schools with robotics clubs.

Here is a document to keep everyone on track with a tentative timeline of events. The goal for the month of October is to successfully match each school with a company and for them to set up their first face to face meeting before November 14th.

During that first meeting between the schools and the manufacturing companies, here are some talking points and objectives:

DISCUSSION POINTS

- **Learn from each other and listen:**
This entire event is about building relationships and support. Many teams have never competed in robotics competitions before – so everyone is learning together. Don't worry about having all the answers; focus first on getting to know one another.
- **Talk about various career fields:**
There is a lot to learn in sharing past experiences. Discussing jobs you have had in the industry as well as your current role can really help students to get a better understanding of the manufacturing field.
- **Share your thoughts about the different challenges:**
Since you both have had time to view the challenges, take time to discuss which ones you are interested in and why. Begin the initial brainstorming or set a date to discuss concepts in the future.

FALL PROGRAM TIMELINE

SEPTEMBER - School resumes, Applications due to confirm participation this year.

OCTOBER - Manufacturing Day; Schools are matched to their companies, initial meetings are setup. Project coordinator Jason Thomas is meeting in person with schools to confirm participation and to provide additional support.

NOVEMBER - Schools have had their first (or second) meeting and are beginning to discuss plans for the competition. The first purchases for materials should be made or in process.

DECEMBER - As we prepare for winter break, schools should have met with their company partner at least 2 times and should have identified the competition they will compete in for the spring. There should be a January meeting scheduled. Company meet and greet is scheduled for **Wednesday December 14th from 6pm - 8pm**

