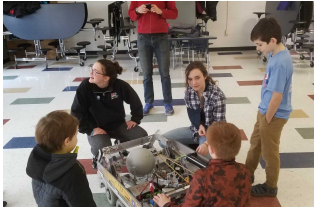


FIRST® Robotics Challenge - Week 5



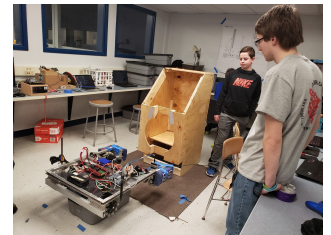
This week we got a chance to show off our 2016 robot at Super Science Saturday. FTC teams were also there with their robots. After Super Science Saturday, the FTC teams met to give out certificates and discuss further opportunities to have some off season meetings.



Partners In Education present: ***SUPER SCIENCE SATURDAY***



- **Lifter:** After assembling the lifter, we realized that one of the constant force springs wasn't long enough. As a temporary solution we are putting in an elastic band as a substitute so we can get the robot to software faster.
- **Gripper:** It was fully assembled and put on the robot. We worked out most of the kinks and substituted all the polycarbonate parts for welded aluminum parts to make it stronger.
- **Stepper:** The stepper is mostly assembled. We spent most of the week working out the small issues, and are on track to finish it early this week.
- **Chassis:** Moon Pie is being used by software while we continue building Space Force 1. We have been facing some issues with assembling the subsystems on Space Force 1. We have been working on positioning and spacing so that it both stays within the weight limit and performs the way it was intended to.
- **Camera:** The highlight of this week was that the software team was able to program autonomous control to the robot to correct itself if it deviates from the line. We have successfully programmed both the cameras. One to detect the line on the floor and to follow it to the target and the other one to detect the reflecting tape on the rockets and loading docks. We are still working on the placement of the cameras on the robots.



The field parts have been completed and moved to the practice field and we have assembled the playing field. As soon as the robots are up and running, the Drive team will be able to start practicing. It will also give us the opportunity to troubleshoot and fix any issues that come up.

The Operations Team submitted our Avatar design and started revising and updating our Entrepreneurship award for consideration at competition. The button designs were finalized and are in production. Bracelets have become quite popular as giveaways at competitions, so we have ordered more in order to increase our team awareness at competitions.

"WITH ROBOTICS I'VE GOTTEN A CHANCE TO PARTICIPATE IN LEADERSHIP POSITIONS THAT I WOULDN'T HAVE HAD ANYWHERE ELSE."

-JACK VANDER LINDEN