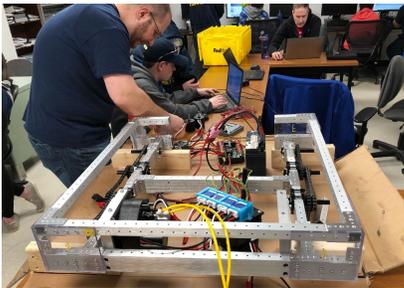




## First Robotics Challenge - Week 4

### Our Practice Field!

Our new practice field is almost ready to test on! After hard work and long hours from our Field Parts team, we are nearly ready to run our robot on a full-sized field. We are sharing this space with Team 3173, the IgKnights, which helped us build a great relationship with their team.



### Week 4: Robot

Our main focus for this week of the season was to design and manufacture our final solutions that we will use for the Miami Valley Regional in Ohio. Our CAD team has been working hard to get the designs completed that still need to be manufactured for each sub-team. Most of the parts were ordered or sent to the manufacturing team for production. Software worked diligently this week to write working code for the working chassis. Our system integration team has been making sure that the four subsystems will work together as planned.

### What did each sub-team accomplish?

Drive Chassis - Built the 8-wheel chassis, added chain with mounted motors, and allowed for the climber to mount to the base. Started to test the code with the design.

Power Cell System - Continued building prototypes and designing CAD models. They ran into a few issues but solved them eventually. The software team finished writing code, so once the design is finished it will be ready to test.

Control Panel - Built a working prototype, with operational code for both the color sensor and the motor. Started to finalize what our finished product should look like.

Climber - Finalized ideas on how we can lift the robot, tested weight that the current design can lift, and software is almost done with the working code.

### Flandana

Our operations team designed and is making flandanas (flannel bandana strips) for marketing at competitions. Our team will be proudly wearing them so look for them at the Miami Valley Regional Competition to get one for yourself!

