

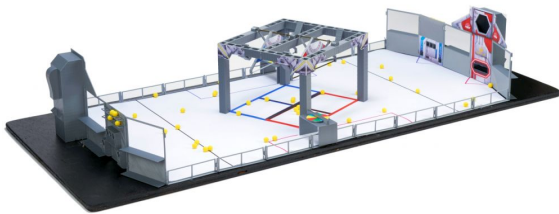
# Team 3082: Week One Update

## Kickoff:

On January 4th, the 2020 FIRST Robotics season finally began. Our team met from 8:45am-4:00pm to see the game reveal, strategize, look through the rules, and plan our Week 1 priorities.

## The Game:

This year's game is FIRST: Infinite Recharge. In the game, there is a tall structure with 3 large openings to score. Additionally, there is a color wheel that the robot must spin in order to score more points. At the end of the match, there is a period in which the robots attempt to hang and balance on a "field generator" to score their final points.



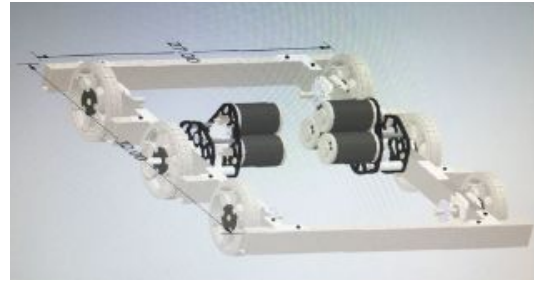
*FIRST 2020 Field Diagram*

## This week:

Our team has begun prototyping the shooter, ball storage, ball pickup, and climber mechanisms. The electronics team built a two-tier electronics board. Additionally, we assembled the practice drive train for testing mechanisms, programming, and electronics boards. We have also started our full robot CAD, beginning with the chassis, as well as construction of the field elements, which will allow drivers to practice and test prototypes.



*Field Elements in Progress: Power Port*



*Robot CAD: Completed Chassis Design*

## Proudest Accomplishments:

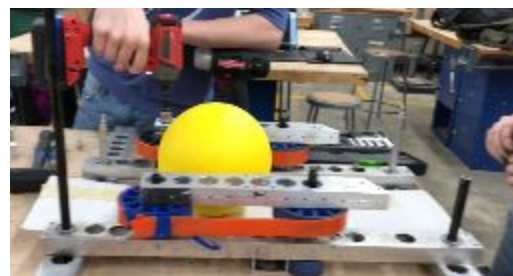
- ★ A well-developed prototype for a potential single-wheel ball shooter design.
- ★ Working kit chassis with a 2-tier electronics board to have driving test for driving applicants as well as a base for other hardware and software testing.



*Kit Chassis Wired and Ready*

## Southwest Hub Meeting:

At the southwest hub meeting, we met with other robotics teams from around the area and discussed the game manual and shared our interpretations of the rules. We also conversed about each team's strategy, robot designs, and week one progress.



*Prototype for Robot Ball Storage*