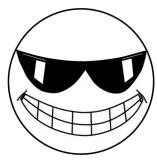




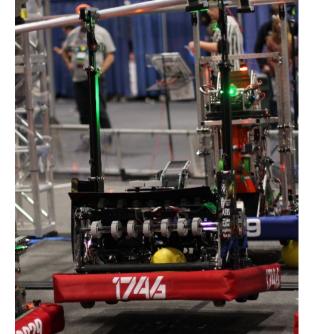
2020 First Meeting

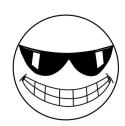






- Year round meetings
- Flexible with most schedules
- Meets the STEM competition requirements
- Amazing opportunity to get real world engineering experience, along with marketing and business relations.







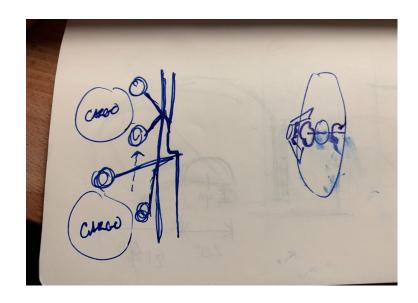




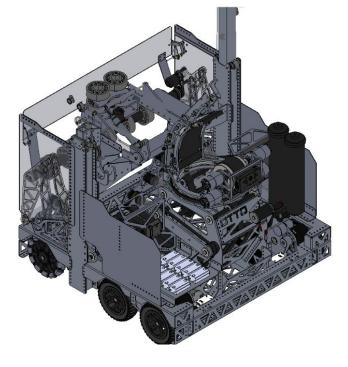
Team Structure

Team Communication

- Slack
 - Main form of TeamCommunication
- Trello
 - Form of
- Google Drives
 - Storing Team Documentation
- GrabCAD
- GitLab

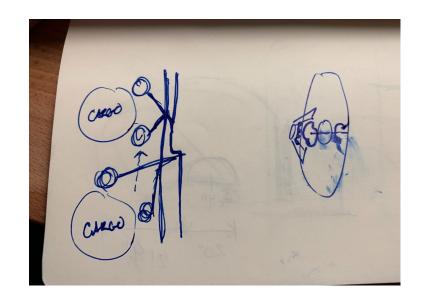




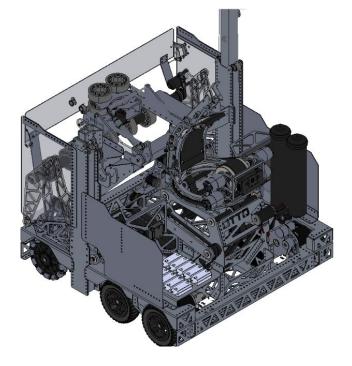


Mechanical Team

- Tasked with designing, manufacturing, and assembling the robot.
- Uses a lot of SolidWorks, but it is very important just to be able to think of designs.
- Can teach you skills in operators tools, including the shop tools in addition to computer operated machines.





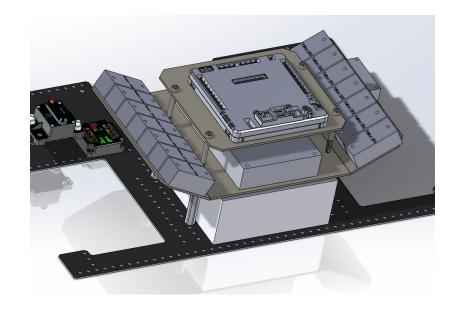


Electrical Team

- Mount electronics onto the robot
- A variety of motors, pneumatics, motor controllers, sensors, and control systems are used on the robot
- Wire and provide electrical power to different components of the robot

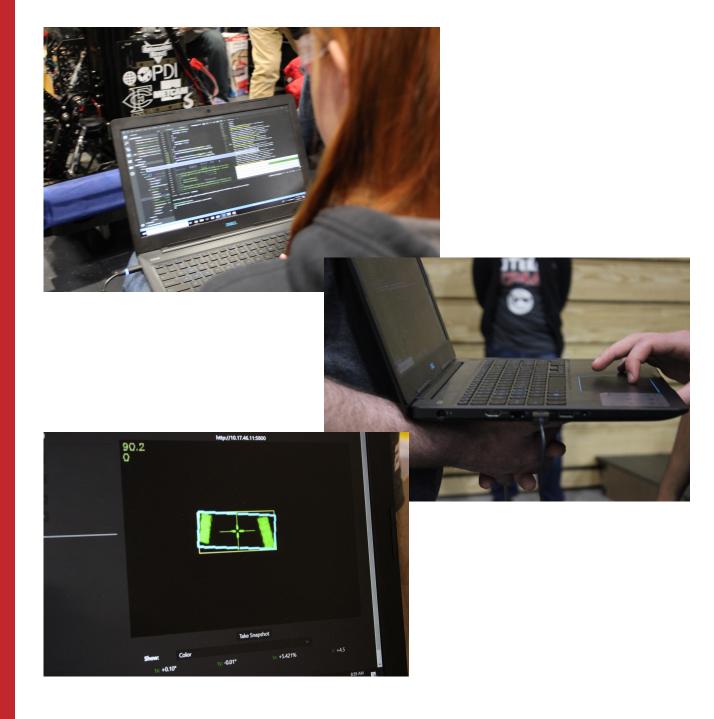






Programming Team

- Primary language: Java
- Code is used to automate robot functions controlled by an Xbox controller.
- The robot is autonomous during the first 15 seconds of every match



Business Team

- Sponsorships
- Branding
- Awards
- Media





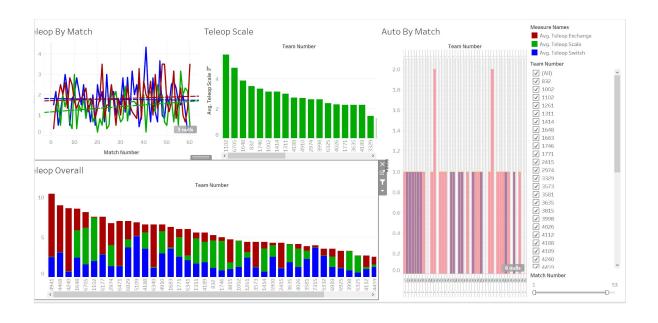




Scouting Team

- Scouting team records match data and analyzes this data to win matches
- Everyone contributes to collecting data in competitions
- Scouting data is used for alliance selection, pick lists, and match strategy



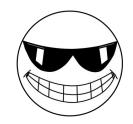


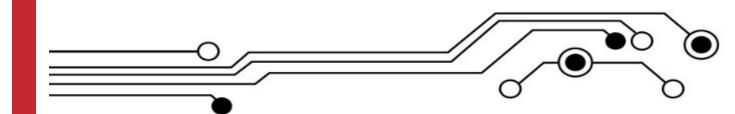
Build Season

Kickoff

- Every year in January, FIRST releases a new game along with an explanatory video.
- Each game has a different objective and subsequent challenges.
- OTTO 1746 has run a local kick off at Forsyth Central High School for the past few years.
- Marks the beginning of build period in which teams design, build, and program a robot specific to the new game.



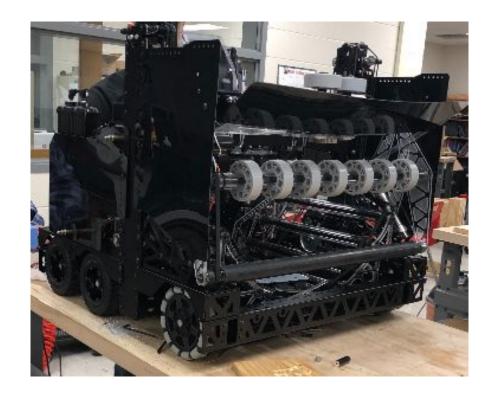


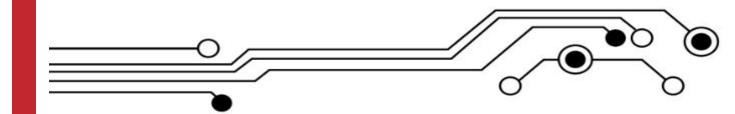


Changes

- The 2020 season was suspended as a result of Covid-19
- The 2020-2021 season will therefore be a replay of the previous year's game
- Rather than a strict "build-season", the entirety of the time now until the season end can be used to modify and build your robot
- Game changes will be announced at the start of the new year
- A team's robot from the previous season will be allowed







Meetings

Current:

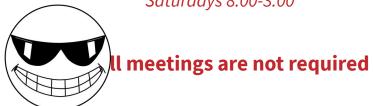
Training for sub-teams, sub-team calls vary

General meetings Wednesday at 5:30

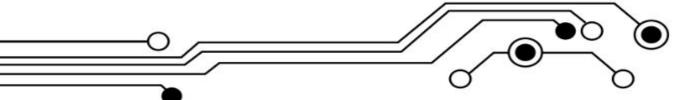
Build Season:

2 days a week after school until 9:00

Saturdays 8:00-3:00

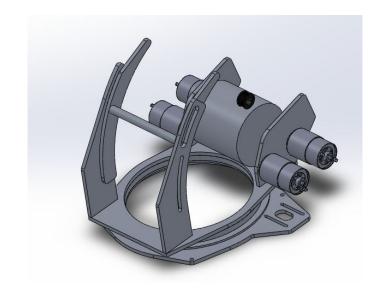


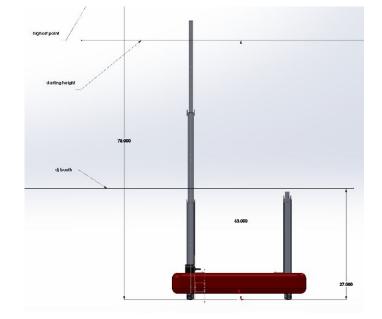


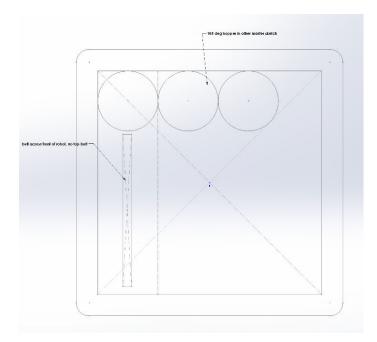


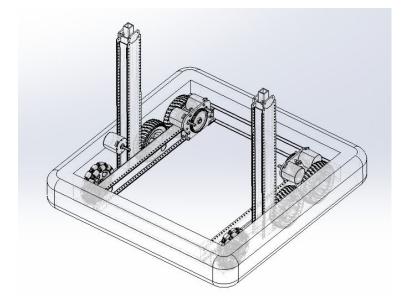






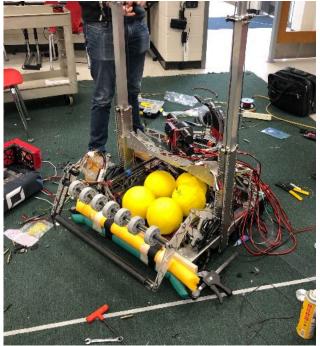


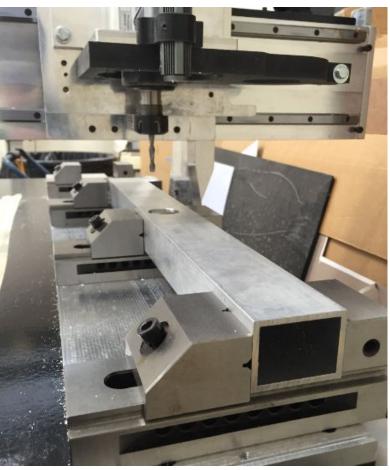


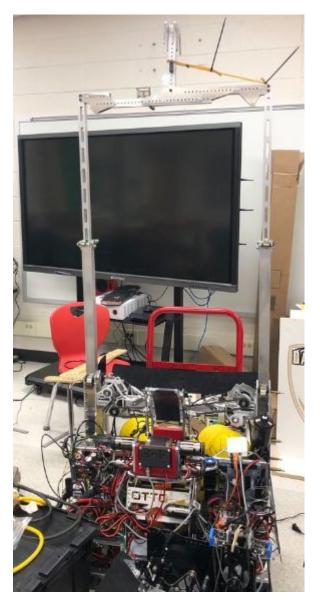


Initial CAD Design









Fabrication and Manufacturing

Competition Season

Georgia FRC

2020

Gainesville Event (Week 1)

Finalist

2019

Gainesville Event (Week 1)

Finalist

Forsyth Event (Week 5)

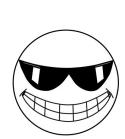
Winners

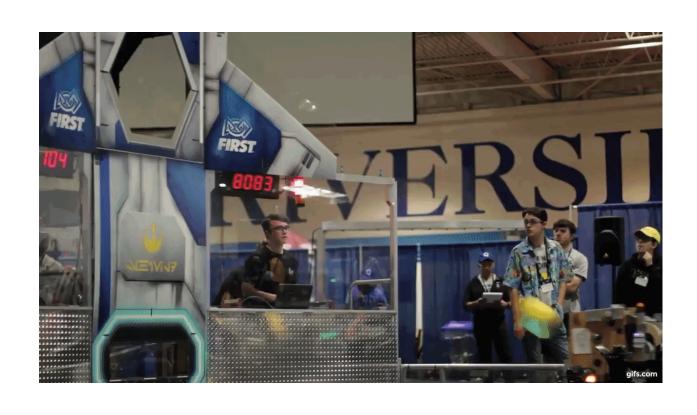
Qualified for State Championship

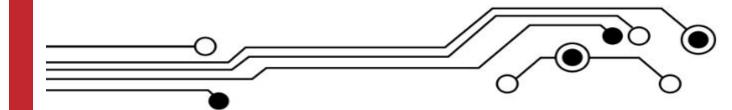
State Championship (Week 6)

Finalist

Qualified for World Championship







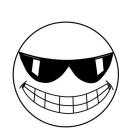
Upcoming Season

Two District Events, March-April
8-9 Small One-Day Events

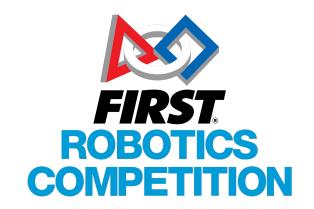
Smaller events, small team at the competition

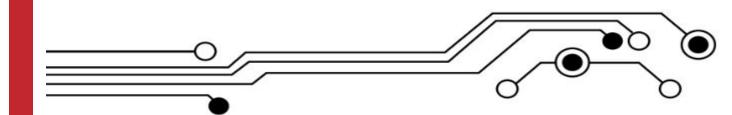
Rest of team will be at school

- State top 18 teams, TBD
- World's top teams TBD, Mid-July





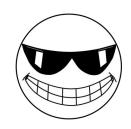


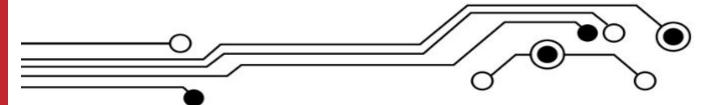


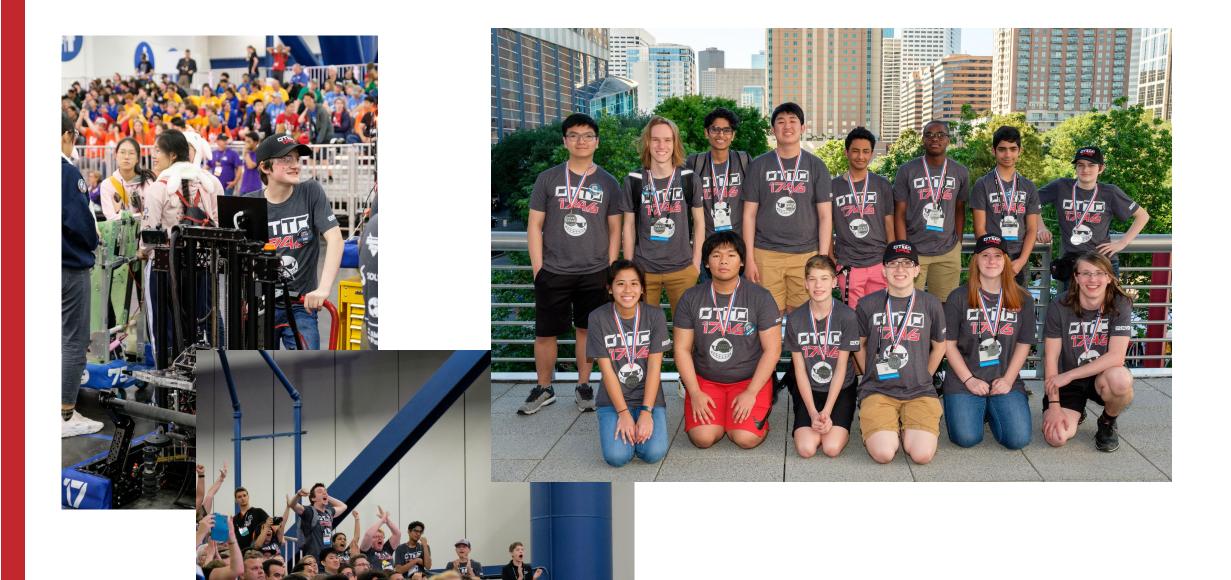
2019 World Championship

- Final Event of 2019 season
- 14 students in attendance
- Record of 8-9 and was division finalists with 6443, 7426, and 2811
- District Finalist out of over 400 teams from around the world



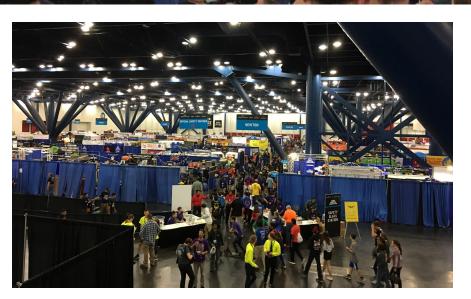


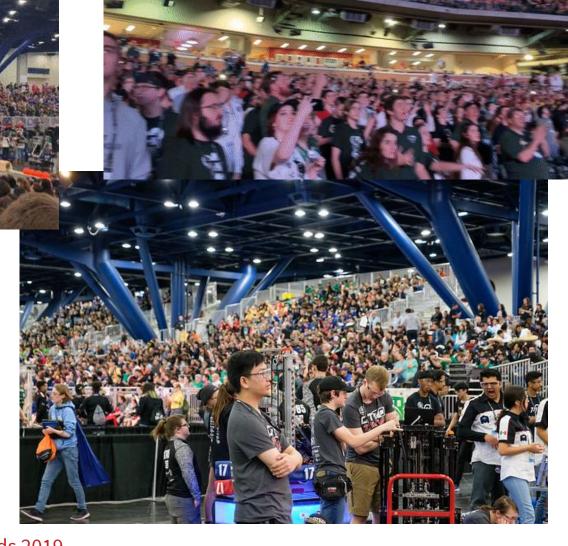








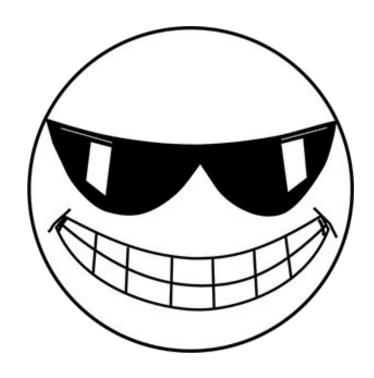


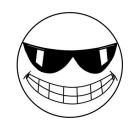


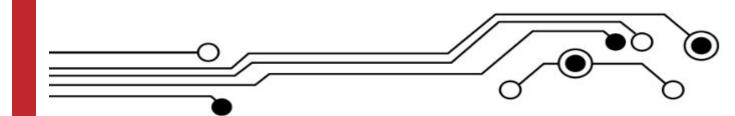
What's Next?

What's Next?

- Our team will be hosting various training calls for each sub-team
- If you are at all interested in these trainings, we will be having weekly calls







What's Next?

- Join Slack! Fill out the form with your email if you are interested.
- Get plugged into any interesting Sub-Teams
- Join the weekly training calls!

Join Slack Email Form:





