



Trenton
TorqueNado
Team 5090
□
Newsletter
January 20, 2019



Week 2 Complete!

TorqueNados have had a successful second week, five of our teammates won a Solidworks CAD competition, the lower chassis team took on a bumper and pit design, and upper chassis refined their engineering design, programmers have made advancements in vision targeting and programming pneumatics. The Business team finish the design for the team shirt, making great digital media content and preparing for our presentations. Goal setting has become an important component of all of our subteams, with 30 minutes every Monday used to identify our SMART goals for the week. We still have lots to do before our 1st competition on March 1st but making great progress. For a video review of our week, be sure to check out our "week in review video" on our [Youtube channel](#) published every Tuesday

1/20/2019 Written By Marky Revesz & Thor Briscoe Edited By Rileigh Tepper



Programming

The programming team has accomplished numerous tasks throughout this week. For starters, we got the basics of pneumatic's up and running, allowing for the movement of a piston. We also figured out how to use NavX, so that we can communicate to the robot using angles. Lastly, we are now able to use vision tracking to detect the targets and change the YAW of the robot. We are quite happy with everything that we accomplished this week. See you next week!



Safety

This week we created a first aid brief for our team to go over on Saturday, with an outline that Mrs. Neubecker created to help get an idea of what should be included. It talks about common injuries that happen in both of the rooms and how to treat them. Who the safety captains are and some different scenarios that could happen. It should be helpful to help others

know what to do when a safety event occurs. We also updated the safety form.



Chairmans

The Chairman's Team's younger members were very busy this week learning more and more about the TorqueNado's history and accomplishments. They have continued to study the TorqueNado legacy folder and ask questions to understand what it all means while writing about that history in the presentation slides. This week they also spent a great deal of time preparing a poll to help all possible presenters make bullet points about their Robotics experience.

One of the Chairman's team members, Katie, also got to meet Mr. Paul Martin, Mrs. Neubecker's uncle, who is a machine shop owner. Mr Martin is going to help the team get the Bridgeport up and running smoothly for us. Katie got to have a nice long chat with Mr. Martin, using her new TorqueNado knowledge to impress him with team dimensions and history, gaining some great experience in talking "shop" with a visitor.



Electrical

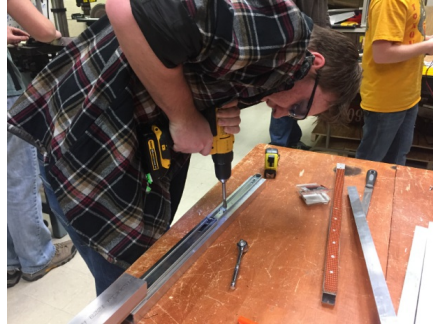
During the week, our electrical team was able to wire up two new test benches for our programmers to work with; one of them showcased the use of pneumatics to activate a piston in order to launch a ball. Our second test bench was also thoroughly organized and given three more motor controllers and a functioning RoboRio. This lets two separate programmers work on separate things with each test bench, a big boost in productivity! In addition to all of this, we started to design our electrical mount for the robot. Although we still need lots of information about the other mechanisms -- such as the chassis dimensions, amount of pneumatic components, and placement of the elevator and game piece manipulator -- we feel confident in getting a rough mock-up of our design by Saturday.



Media

This week the media team has been working on trading cards to pass out at competitions, making button designs, tattoo designs, as well as finalizing the brochure that's been in the works for over two weeks. We have also created youtube templates and have been teaching freshmen how to use premiere

pro.



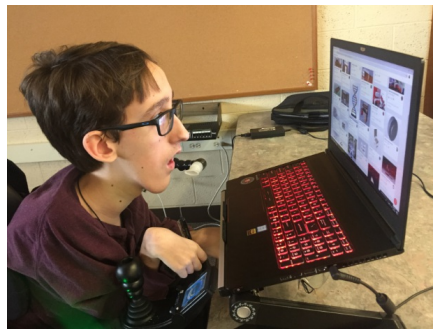
Upper Chassis

This week the upper chassis had a full and busy week refining our prototypes and which lifted we would further prototype. We figured out how to mount our grabber and that we would use drawer sliders to help lift our grabbers.



Lower Chassis

The chassis was ordered a week ago and due to shipping delays it just now shipped on Saturday and it probably won't arrive until Monday. The team diverted their attention to researching different ways to mount bumpers to the robot. We have also been looking at different ways to enhance our pit design as we pursue the imagery award.



CAD

Our CAD team has been working hard this week, the arms and the lifter parts of the virtual CAD robot are just being finished by the team. This is leading to the first iteration of having a completely CAD robot. Having a CAD model in our possession will help the team virtually simulate how our future robot will function. These CAD models have served to be very important as we explore the use of Fiber Reinforced Plastic as material option this year. Andrew is working on a brand new pit design for our competitions.

WHEN ARE WE GOING TO BE SOMEWHERE?

Mark your Calendars! Upcoming competition and event dates listed here

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