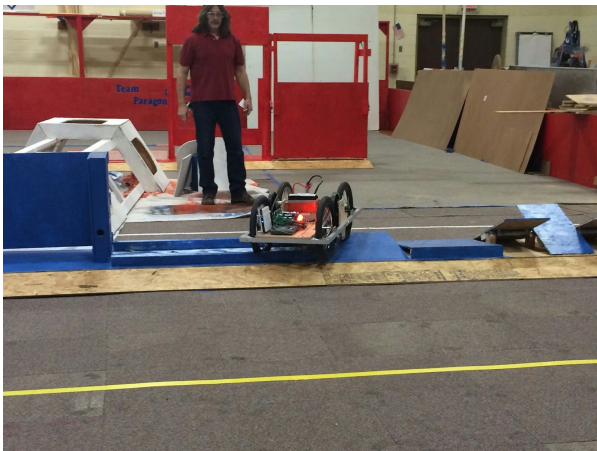
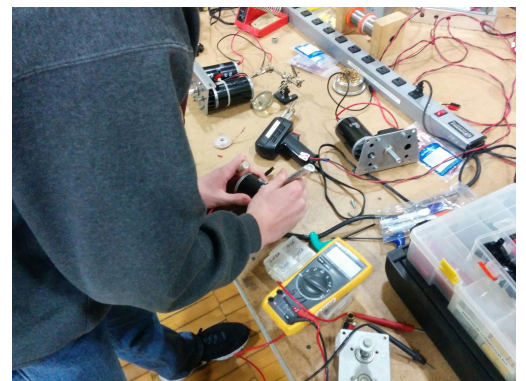


# Week Three Update



## Build

The build subdivision of our team had been hard at work adding functionality to our practice robot chassis. Our drive train, composed of bicycle tires and Josh drive (named after the former team member, now mentor, who came up with the idea to use two smaller tires to apply traction to the robot's wheels), have been working better than expected. Aside from a minor flipped robot during drive practice (no fault of the excellent driver), our robot has proven to be fairly maneuverable. Following the success of our drivetrain, we have worked on creating an equally functional arm for manipulating obstacles. Our design seems to work in theory, but the motor we used did not provide enough torque to lift the portcullis, so we are manufacturing



another mechanism with a more powerful motor and a transmission that will generate more torque. After this arm is finalized, our practice bot will be close to finished. It should be able to cross every defense as well as hold the boulder and score in the low goal. We have also manufactured a second wheel shield to protect the left side of our chassis from the falling portcullis gate and side impacts from other robots.

## Imagery

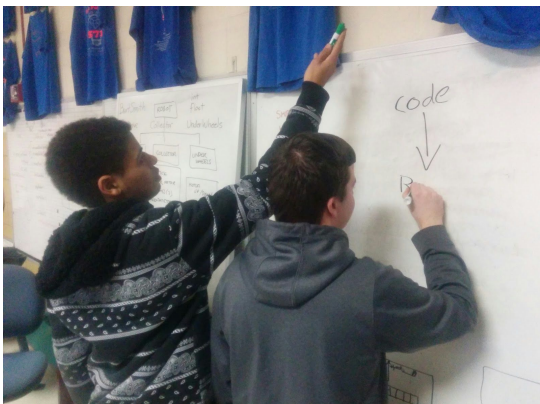
Imagery continued work on our shirt this week after having a slight setback when the digital quality of our original design was not good enough to be enlarged onto a shirt. With the help of Jonathan's sister, we recreated the front and Jesse re-created the back design in photoshop in order to provide a better quality design for the t-shirt printers. We also continued figuring out possible button designs to fit this years theme. The front of the standard is finished and I'd say it's looking up to standard. Now onto the back of the standard. The Pit Book is also making progress. We continue to update the information from last year, and we have decided to add a new sections this year: safety. Lastly we began designing the awards that we give to others teams at each competition. Although in years past we came up with only one design and created six identical awards, this year we came up with three different designs: one for each award category.



## PROGRAMMING

After much discussion, programming has finally decided on a code name for the robot, TR, the country code for Turkey (duh). Furthermore, we decided on what presets we want to add for the different arm positions needed to manipulate the portcullis, sally port and drawbridge. When

fully implemented, the code should allow the driver to hit one of the four top buttons on the joy stick to automatically move the arm to the correct angle to be set up for the corresponding obstacle. This will allow the drive team to efficiently pass through defenses, a skill that will be invaluable to our alliances at competitions.



## Web

Web continues to update our website by changing the logos and links provided by our sponsors. The calendar has been updated in order to keep the community informed of our upcoming competitions and dead lines. The layout of our homepage has been revised in order to keep it looking clean. The group finished up the week by looking at other websites of *FIRST* teams for inspiration and ideas to keep our website current. Web also continues to run our social media, our new team instagram, facebook and twitter are updated often. check out instragram at

<https://www.instagram.com/teamparagon571/> .

If you would like to learn more about the team, or come visit us, contact [teamparagon571@att.net](mailto:teamparagon571@att.net) or check out the web site at [team-paragon.org](http://team-paragon.org)



## Special Visitors:

This week we had a visit from Tom Baird, the STEM director of Windsor Public Schools. He came to check out how the FTC and FRC teams are progressing with their build seasons. He promised he wouldn't share all of our secrets with his hometown team in Massachusetts.



## Special Thanks:

A special thanks goes out to the the Petros; Pam has been diligently and stealthily organizing our entire build site, piece by piece. She is doing a fabulous job and in the process created this mini city scape out of our aluminum extrusions. And George has completed our wonderful 2016 calendar.

## Upcoming Events:

Suffield Shakedown: Sat., February 20th  
 Stop Work/Bag and Tag: Tuesday, February 23rd  
 Waterbury District Event: March 5-6th  
 Hartford District Event: April 1-3rd

~Addison & Sam