



aerial  
assist™



Week Number Six

Tuesday is ship: it's practically here. With the ship date so close much work is being done as quickly as possible. By Tuesday we will be done, whether we are ready or not.

### Build

We have been soldering, wiring, carefully drilling, and weaving a wires through very small spaces. Without any time to spare people have been shoulder to shoulder



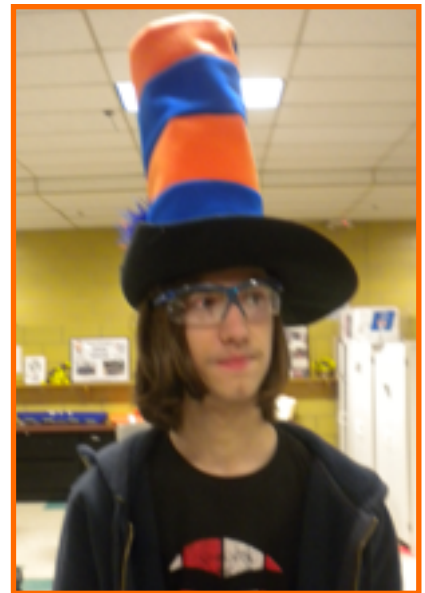
working on both sides of the electricarium. The arm motor has been reinforced so that it will not tear itself apart. The painted



portion of the arm has been covered in lexan so that it will be stronger and resistant to destroying the image related paint job. The Julie Bot, the practice bot, has been just about completed with old bumpers modified and everything completed it was ready for Suffield shakedown.

### Imagery

Staying with the theme of Dr. Seuss, we have been creating a book using robotic and Green Eggs and Ham's theme: Would You Like To Build a Bot? The book has also been illustrated with ParaSeuss photos, modified with Team Paragon images. Additionally we have made blue and orange Cat in the Hat



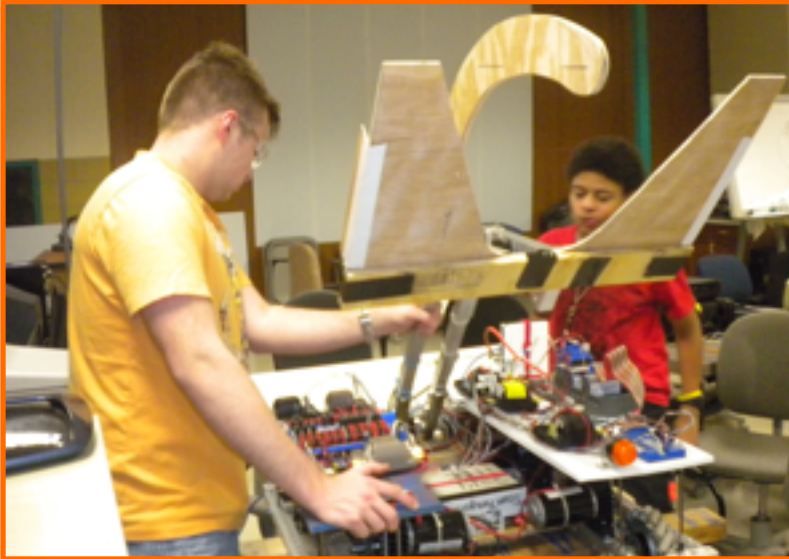
hats to be worn at competitions. We have also been working on ideas to animate our competitions with Dr. Seuss themes.



## Programming

We have been working out the glitches in the programming

code. Also we have been working on giving the robot the ability to understand information gotten from limit switches and potentiometers. This



will make it so that the robot knows where the different parts



of the arm are to stop itself before it damages itself or field pieces.

## Web

We have been working on putting together a comprehensive video that will in detail go through the process of building a robot. Also we have worked on animating portions of our website to make it more comprehensive and impressive.



## Drive Team

As we near the end of build, it was time to decide on



the drive team. Those who are eligible for drive team (and others who just wanted to for fun) took 2 written tests and completed “driving” sampling to determine who would be the human player, student coach, driver and operator.

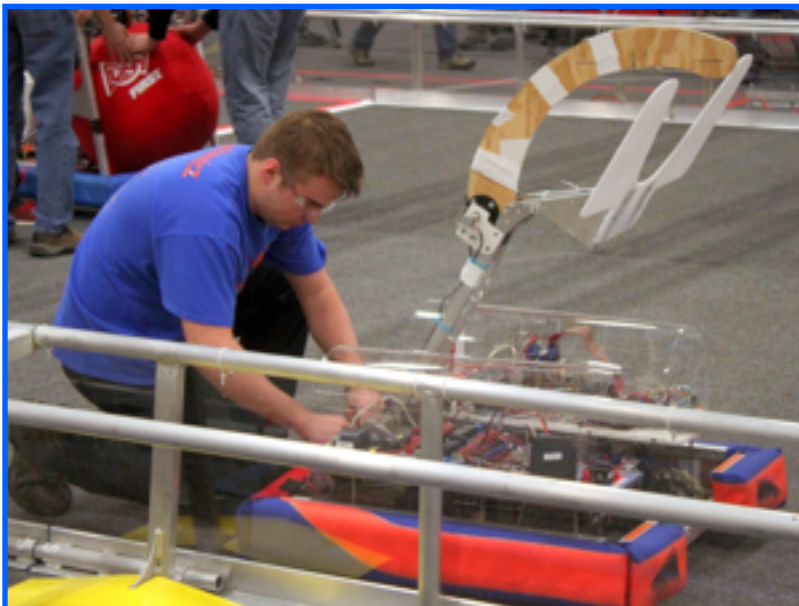
## Suffield Shakedown

We had a completed robot in time for Suffield!

The pits were a bit busy. Despite a little bit of difficulty in the beginning getting the robot to recognize



the electrical components, we were able to get that worked out and even made it onto the field for a practice match. That is a record!



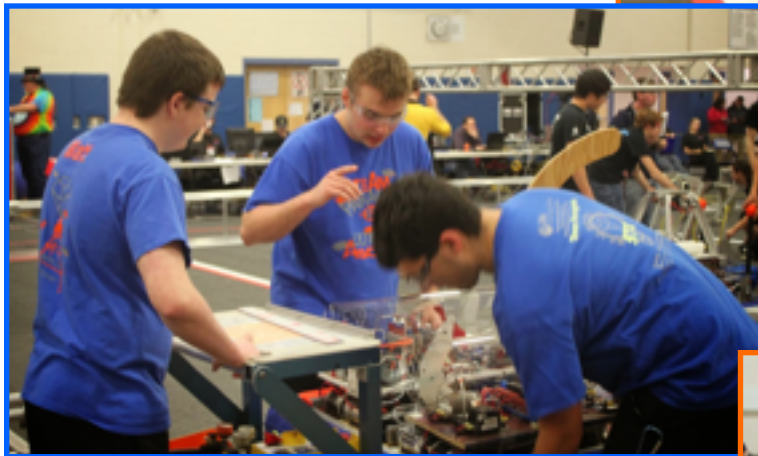
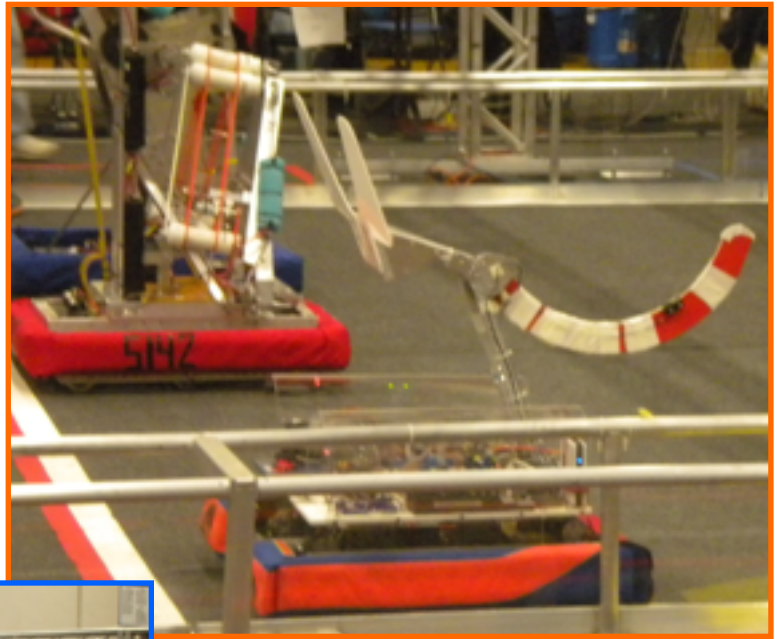
We definitely shook the robot down. We found that we needed to reinforce the claw that grabs the ball.

Unfortunately the claw that holds onto the ball broke on our first match. With a quick swap of the arm and

addition of lexan to reinforce it, we were back on the field.

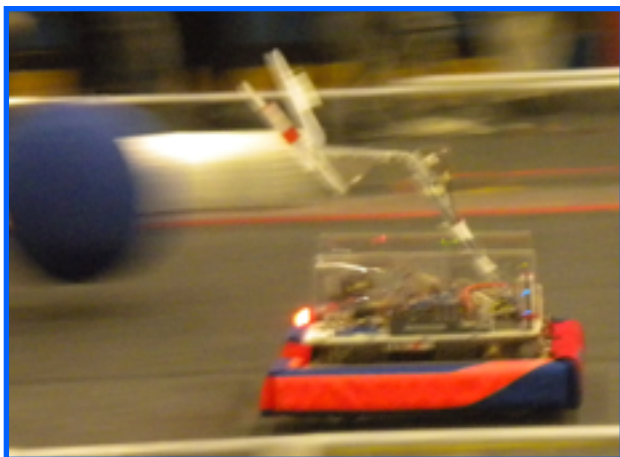


In addition we found out that we need to create a cup that will create a larger surface to grab the ball. Additionally we decided we needed to work on the driving code to make the



drive controller work easier. Finally we found out that we needed to

strengthen the arm as well as make the arm able to stop itself at a certain point.



Despite not having much time for driver practice, by the last match we were working together well and working well



on defense as well as offense. We also learned that we can successfully participate in assists rather effectively. Team members even got into the spirit of the game of the field....Cotton Eye Joe, here we go! We know that we are ready for refine the robot for

Groton....and maybe our dance steps too. Windsor's



Interim Superintendent, Dr. Cooke came out to see what the team was doing. Hope he and his daughters enjoyed their day with the robots.

## Thank you

This weeks shout out goes to all the parents who have fed us on the weekends. Without your support and food we would not be as productive on the long build session days. Thank yous go to Iwona Karpinska and Paul Cavalo, The Pinkney family, the Franklin family, and the Reale Family for their sustaining contributions.

## Up Coming Event

Ship: February 18th

Groton District Competition: March 8th and 9th

Hartford District Competition: March 29th and 30th

Continue to watch for the weekly updates on the blog to watch our progress.

Follow us at:

@TeamParagon571



[www.team-paragon.org](http://www.team-paragon.org)



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