

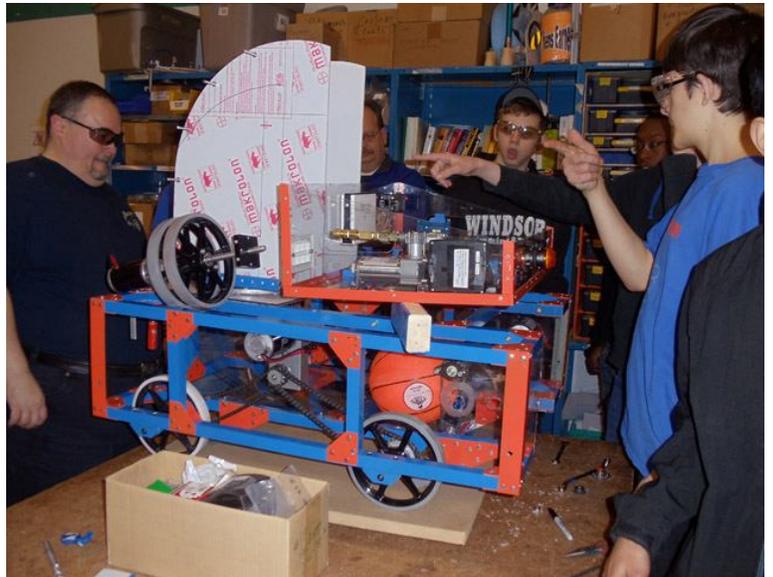


## FIRST Team Paragon Week 5 Update

Team Paragon has one week left to finish Metal Arc. It's crunch time for *FIRST* Team Paragon and all other *FIRST* teams.

### Mechanical

The mechanical team had a productive week. They finished the rolling chassis. We are building a ball collection mechanism, ball shooter, and an arm to balance the ramp. The ball collection mechanism is a series of rollers inside the chassis that brings the balls from the front of the robot to the bottom of the shooter. The ball shooter is very simple. It is a wheel centered on an arm that sends the ball soaring through the air (Hopefully into the hoop). The arm on the front serves one purpose: to angle the ramp downward so we can drive up on it.



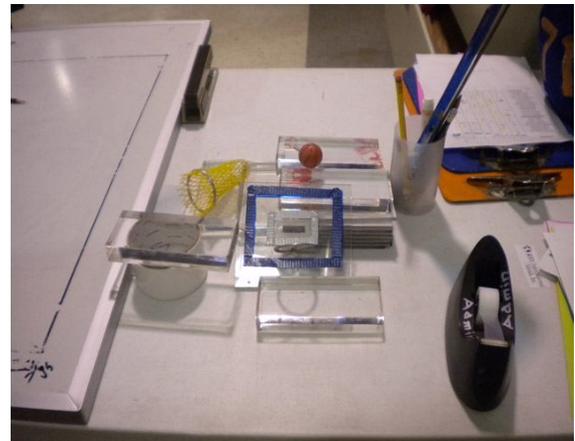


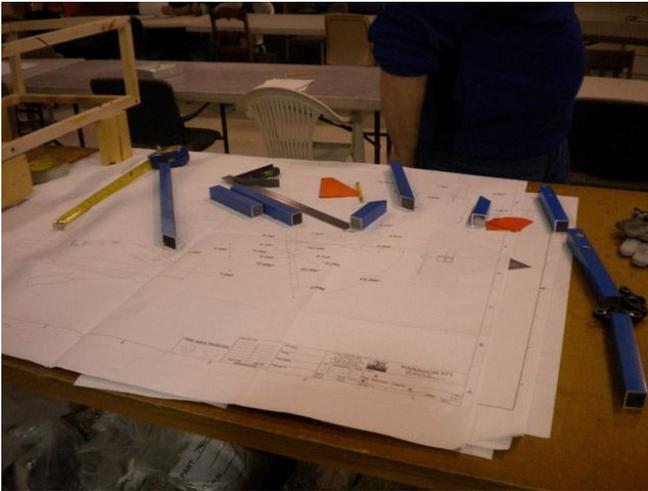
## Electrical

Our Electrical team has finished the ElectroPneumoQuarium frame. Our precisely aligned polycarbonate plastic panels, joined with aluminum angles, is ready to house the electronic “brain” of the robot. The next thing we need to do is to wire the robot so it can actually move.

## Imagery

Our imagery team is fine tuning our awards for other teams. This is an important aspect of our persona as Team Paragon, because we have a reputation of gracious professionalism, spirit, and dedication to *FIRST*. We have button designs that are ready to be printed and are developing giveaways at the competitions. Now that the robot structural design is complete, imagery can begin the layout of sponsor and name decals.





## CADD

Our CADD team is finished with designing the robot electronically. We have reference drawings of all our parts and assemblies for our competition robot and are waiting in the wings to make

any design changes. If anything breaks, we can make a new part using our drawings.

## Programming

Our programming team is working on a very important project: the targeting system. We have figured out how to use the camera to see the reflective tape, acquire reference points and move the robot accordingly. This is a huge achievement for our team, because this verifies that our shooter will be able to aim at the targets on its own.





## Web Design

Our web design team is working hard to tweak the final details of our team web site. The website must be submitted to *FIRST* by Thursday if we want to be judged for the *FIRST* Web Design Award. We have tried in previous years, but this

year we're confident we have a very good chance to win. Check it out at <http://www.team-paragon.org/>

We only have 10 days until ship so if you would like to see the "madness" in action please remember that you are always welcome to visit us at the build site to see your contribution at work. Stay tuned for more weekly updates.