



## FIRST Team Paragon Week 4 Update

Team Paragon has been shooting it into high gear this week. We have our plans for each subgroup, and we're meshing them together now.

### Mechanical



Our mechanical group has the biggest tangible challenge: the frame. We have almost completely assembled our competition chassis using the aluminum and steel we painted in previous weeks. With the frame almost done, we can move on to final design of the ball shooter. In order to get every part of the robot to run perfectly, all our subgroups need to work together. To be able to fit everything we need on the bot, we have to cooperate as subgroups to balance it all out.

### Electrical

Our electrical group has been assembling our robot brain. The "brain" is a series of electrical components that are wired together to tell the motors and pneumatic cylinders what to do



and when to do it. Team Paragon is known for doing a unique thing with this “brain”. We make a modular, removable electronics tank out of clear plastic known as the ElectroPneumoQuarium.

### Imagery



Our imagery team has received a digital copy of the T Shirt design from Rainbow Graphics, our screening company. All we need to do now is send back our revisions and wait for our shiny new Team Paragon shirts. We are also designing and prototyping awards and buttons to hand out at regionals.

### CADD

Our CADD team continues to create our competition robot in SolidWorks, specifically the arm to push down the ramp, and brackets for the axles to sit on. Our subgroups have different ideas about solving problems, and our CADD team can quickly mock up their ideas without wasting time or materials. Because our CADD team designed our chassis in the computer first, our mechanical team was able to cut and build our chassis with ease.



## Programming



Our programmers have been hard at work, trying to solve the biggest, intangible problem of all: the targeting system. This is a huge part of our robot, and we need it to work. They have been able to use a camera to sight in on the reflective tape around the hoops, and now they need to use this information to give our shooter a direction and an angle.

## Web Design

The web team has been hard at work. Every year, FIRST has a competition for the robots and everything else the team does. Our web design team has been reworking our entire website to submit it for an award. This week they designed a new home page banner, completed Student profiles, added new content for *FIRST* page and added "Team forms" like permission slips and applications. They are now in the process of updating mentor page with photos and Q & A's and updating "Past Robot" pages.



## Other Team Activities

Our team has caught the eye of a local newspaper, The Windsor Patch. Editor Julian McKinley stopped by to interview some of our team members. Please visit [windsor.patch.com](http://windsor.patch.com) for more information and the article.

**WindsorPatch**

We also spread the word of robotics to a new school. Bloomfield High School students and teachers have taken an interest in Team Paragon. Some of the students came over our shop for a tour. A few even left with paperwork!

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.