



# TRISONICS

## WEEK 1



### The TriSonics ARE READY TO POWER UP!

The off-season has been full of volunteering and community outreach, but now the TriSonics are ready to kick off the 2018 season with the new FIRST Robotics FRC game, POWER UP. Here is what the team has been up to in it's first week of the season.



Pictured above, the TriSonics at the 2018 POWER UP kick off

## Design Team

This week, the design team began to form ideas on ways to pick up Power Cubes. After testing wheels and belts, we decided belt systems would work the best. We began to prototype tracked systems that pivot from a point or slide parallel to each other. Using these models, we further thought about ways to integrate it into our robot. On Saturday, we finalized these ideas and began talking about drivetrains and gearboxes for the robot.

## Chairman's Award Team

This week the Chairman's team focused on completing the main essay for the award submission. The executive summaries were also completed. Also, the group spent time brainstorming outreach ideas and events that could benefit the community.



## Wiring Team

In week one, the wiring team completed the practice frisbee robot. We completed research on what wires to use and the requirements for new ways to wire. We are also looking at the manual to focus on different materials we can use.



## Build Team

We started off by cleaning the room up so we could start building the field as soon as the lumber arrived. When the lumber arrived, we immediately started to build the field. We built the tower for the scale. We also build the exchange for along the wall and the fence for the switch. We also built the switch fence along with the ramp for each side of the tower.

## Programming Team

The first thing we did this week was installing all of the required software to develop the robot. After that, we attempted to image the RoboRio and were met with some technical difficulties. When we reinstalled the firmware, we finally got it to work and started teaching all of the new members how to program the robot.

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