

# Volume 2: The Second Week



Allendale  
**Robotics**



## Weekly Build Season Update

*From The TriSonics, FRC Team 4003*

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The TriSonics newsletter allows us to share with you the weekly happenings throughout our 2016 Build Season. In the newsletter, you will find a description from each of our sub teams with what they've been doing during the week! We hope you enjoy seeing our team grow throughout the season, and the progress we make through our 6 week build season!

## Build



This week our build team finished building the defense bases and finished five field elements. They still need to make the hanging bar and the team towers. This subteam worked mostly on prototyping and made a prototype for shooting the boulder and an intake system. Saturday morning we started machining on robot frame pieces. We also have a parent and a few students cleaning and organized the build room.

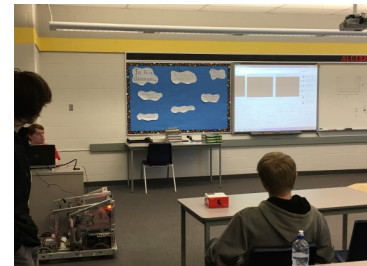
## Design

Finishing the frame design was one of the things that the design team has been busy with. They have also been narrowing down designs for the intake and shooter. They started with many ideas, and have been working to narrow them down. They also began prototyping the ideas for the intakes and shooters once they narrowed them down.



## Programming

The Programming team has been working on the NavX, which they are using to take measurements such as rotational direction, lift angle, and roll. They tested the NavX on the robot by driving over a platform and then carefully adjusted the program so that it was easily readable on the Smart Dashboard.



They are currently working on a vision control system to use in their game style. For the vision control system, they are using software called Grip to process the information from the web cam.

## Chairmans

This week the awards team worked on the chairman's award. The essays for this award is due in almost two weeks, so we worked on completing the main 10,000 character essay. Also we are beginning to brainstorm ideas for the video, which we be working in the following weeks.

## Meet Our Team!

Every week we feature one mentor and a senior from our team to help you get to know the TriSonics!



**DAVE** *mentor*      **SAM** *senior*

David Austin has been a mentor on the TriSonics since the beginning. He is our main programming

mentor and worked closely with Chad in the creation of our team. Dave is a math professor at a local university, and is a valuable asset to our team. He began his career in FIRST when he began coaching FLL teams for the Allendale Robotics program. Dave also works closely with our students to help in assisting other teams with their program.



Sam has been on our team since his freshman year. Sam is our head of wiring but is also extremely active in our design team. Sam plans to attend Massachusetts Institute of Technology to pursue a degree in Engineering. He has worked with many younger students to spread the word of FIRST - and he even began his own rocket club to help get students interested in science!

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