

# Volume 3: *The Third 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!

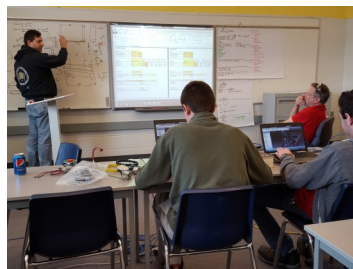
## Build



The mentor spent the weeknights at his employer and machined the large frame pieces. Items completed this week were the field pieces, the robot hanging bar and batter ramp. Frame items made were 10 axles. 10 tire assemblies were put together along with two gearboxes for driving the tires. today the build team is putting the final details on the frame pieces. Another group is the building the Team Tower to practice shooting the boulders through.

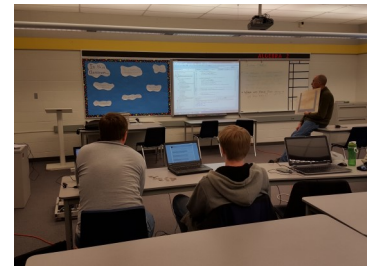
## Design

The design team is currently wrapping up the design assembly of the shooting mechanism and constraining it to the chassis assembly. The next part will be finalizing our ball intake mechanism. The final design will be done shortly, hopefully by next week Wednesday. The newer members are learning well and will soon be prepared to design on their own.



## Programming

The Programming team has been working on their vision code for most of the week. They have been successful in seeing the target, measuring the distance to the target, and the size of the target. They have also added a second camera to use for the drive team.



Now they are currently working on tracking and steering the robot toward the target.

## Chairmans

This week the awards team finished up the main, 10,000 character essay that is due next week. Also they have begun to work on the script for the Chairman's Video which highlights what the team has done in three minutes. The team also finished proof reading the executive summaries which are also due next week.

## Meet Our Team!

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



**DALE** *mentor*      **KALIB** *senior*

Dale Van Lopik has been with the team since it's creation in 2012. Dale and our head mentor,

Chad, have been working together much longer than that though. They have worked professionally together for years, and also helped mentor the same team before they both moved to the TriSonics. He is our machining mentor and is responsible for many of the parts and pieces that go into building our robot. He also heads up our sponsorship team!



Kalib has been on our team since his freshman year. Kalib is usually found helping the build

team, and works closely with Morgan. Kalib is unsure of what college he'd like to attend in the fall, but he knows he'd like to major in Mechanical Engineering. Kalib has been on our drive team and represents our team when our robot competes. Kalib credits the TriSonics with fueling his interest in Mechanical Engineering, and he's enjoyed his 4 years with our team.

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