



# TEAM 3637

THE DALEKS—HUNTERDON CENTRAL R.H.S.



January 31, 2014

[www.team3637.com/](http://www.team3637.com/)

## INSIDE THIS ISSUE:

January Recap	1
Team Reports	1-2
President's Reports	2
Sponsors	2
FIRST Mission	2

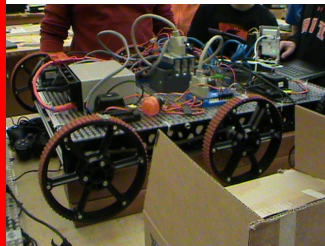
## NOTES:

- "Dalek" comes from the British Sci-fi Drama "Doctor Who" and are evil alien robots
- This year's competition is Aerial Assist
- Build season started on January 4, 2014 and will come to a close on February 18
- Our first competition is on March 1 and 2 at Mount Olive
- President: Ryan Sidebottom
- Vice Presidents: Shrey Patel and Beau LaManna
- Technical Leaders: John Ott, Eric Ward, Brianna Nunez, Ashley Smith, Michael Sidler
- Business Leaders: Patrick Quinn, Kara Jimcosky
- Advisors: Ms. Sherman and Mr. Mastropietro

## January Recap

By: Patrick Quinn

As the first month comes to a close, the team is waist deep in the build season. We have made a great amount of progress during this month. We have seen ideas and drawings come to life and had our excellent team intelligently build, wire, and program every aspect of our robot. Our team has decided that this year will be our greatest yet. We have set goals to be a worth, competitive ally in the regional competition. It won't be an easy goal but our team believes it will be obtainable.



## Electrical Report

By: Ashley Smith

Edited By: Anna Tsatsos

we had the idea to do a single piece of Plexiglas with electrical components on both sides. This gives us more space and protection for our systems. We have been waiting to make the final decisions of where everything will go until after the catapult is done. We have made very good

progress in getting everything wired and running the robot. We have not hit any glitches yet and will hopefully not for the rest of the season.

Throughout the build season the electrical team has been working on the layout for our two level wiring system. This year

## Mechanical Report

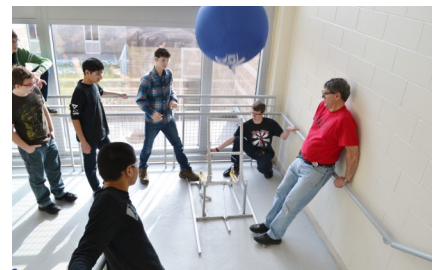
By: Shrey Patel

Edited By: Sterling Whitlow

Our mechanical team has produced two important mechanisms for the robot, one to pick up a ball and one to shoot the ball. Along with that the team has accomplished building a complete, working drivetrain. We have also designed and nearly perfected a catapult and ball

pick-up system. Both systems work, we are just finalizing size and making minor tweaks. We still need to attach both those mechanisms to the chassis, but we are progressing well throughout the season. We hope to finish soon so we can let the programing and elec-

trical teams start working on the completed mechanisms.





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*Our mission is to inspire young people to be science and technology leaders, by engaging them in exciting mentor-based programs that build science, engineering and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.*

## Programming Team Report

*By: Eric Ward  
Edited By: Patrick Quinn*

Programmers are responsible for many aspects of the robot. There are essentially three tasks in a build season: robot code which controls



the robot, driver station code which uses various software to ensure the drivers can successfully control the robot, and finally troubleshooting and testing the robot components such as the IP settings or the CRIO image version. So far, we have finished updating all the software and firmware. We ran into a common bug while imaging the CRIO however we were able to diagnose and solve the issue in a timely manner. After that we quickly got a drive base

moving. The team finalized the subsystems design, and so the programming team was able to finalize the program design. We are on track with the mechanical build and will be ready for intensive test runs when that time of the season arrives.

## President's Report

*By Ryan Sidebottom  
Edited by: Patrick Quinn*

The team is on track, for the most part. Mechanically, we produced excellent prototypes for two important mechanisms for the robot. As of right now, we have also completed the drive train of the robot. Our electrical team is working hard at wiring the components on the robot which has allowed the programming

team to test their code on the robot. The team is now waiting for the mechanical team to finish up the mechanisms so that they can be mounted. Our business is working on completing a majority of the required documents needed for FIRST competitions. Hard work is being done on the Bill of Materials and the team's business plan. All in



all, the team is making great progress and will be ready when our first competition arises in a few weeks.



**And Friends & Family  
of Team 3637**