

## MATHEWS HIGH SCHOOL

### ROBOTICS TEAM NEWSLETTER

ROCKETSAUCE TEAM 1137

3 FEBRUARY 2018

### ROCKET SAUCE: BUILDING AND PROGRAMMING OUR 2018 ROBOT

Dear Friends & Sponsors,

We are two-thirds of the way through our build season and have 17 days left to finish building our robot. This year's challenge is called FIRST POWER UP and is based on an arcade game. The 2018 FIRST Robotics Competition game includes two alliances of video game characters and their human operators who are trapped in an arcade game. Both alliances are working to defeat the boss in order to escape!



We're building our robot to have a lifting mechanism and we are using pneumatics for the first time! The robot uses pinchers with twelve wheels to pull in and push out a cube, and uses a winch system for climbing. We're designing the robot to lift and place a cube on both the high scale and low scale towers. We are still deciding on a name for our robot.



For the programming we are using python coding, which we have used before. We are updating the python software for the robot. It's a long process and we are using the help of one of our mentors virtually.

Our stop build date is February 20th and our 1st qualification event will be March 2nd, 3rd, and 4th at Battlefield High school in Haymarket Virginia. More information about the event :

[//www.firstinspires.org/team-event-search#type=events&sort=date&keyword=Haymarket&programs=FRC&year=2017&from=2018-02-03&to=2019-02-03](http://www.firstinspires.org/team-event-search#type=events&sort=date&keyword=Haymarket&programs=FRC&year=2017&from=2018-02-03&to=2019-02-03)

More information about FIRST POWER UP:

[https://www.firstinspires.org/sites/default/files/uploads/resource\\_library/frc/game-and-season-info/competition-manual/2018/first-spectatorflyer18-frc-ltr-dec-form.pdf](https://www.firstinspires.org/sites/default/files/uploads/resource_library/frc/game-and-season-info/competition-manual/2018/first-spectatorflyer18-frc-ltr-dec-form.pdf)

***Donations can be made to the team by sending a check to:***

***Mathews High School, P O Box 38, Mathews, Va. 23109, marked for Robotics Team 1137.***

***FIRST Robotics is a 501 C3 Non-profit organization***