

# Build Season Week Two

## StuyPulse Team 694 Newsletter

Stuyvesant High School's FIRST Robotics Team



### CAD Marathon

Students and mentors gathered at school this weekend for the CAD Marathon. They discussed different mechanisms tested during prototyping and finalized the ones our team will be using on this year's robot. After, the team began to work on the CAD and once the design is complete, engineering will start building the actual robot.



### FLL Mentoring

Amid build season, Pulsites took time to help out at the George J. Ryan FIRST Lego League (FLL) Qualifier. Team members/mentors judged research projects, judged robots during technical, and refereed games. They had a lot of fun, and they wish the best of luck to all FLL teams at their championship tournament in March!

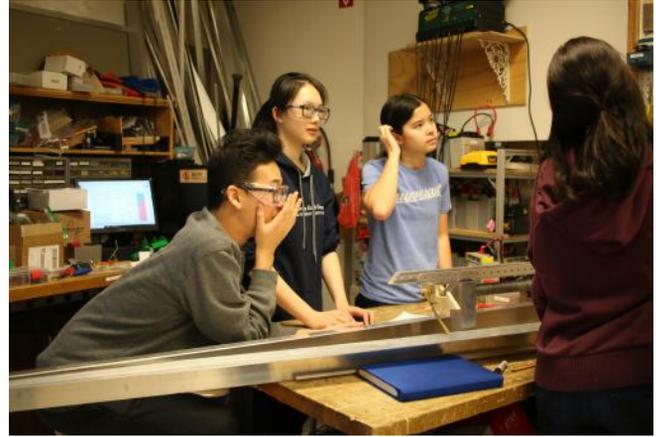
### Marketing

Marketing continued to prep for competition season throughout Week 2. Marketers worked on finalizing plans for the Central New York Regional, which will be held from March 1<sup>st</sup> to March 4<sup>th</sup>, and started designing merchandise and apparel. They also worked on awards, including the Chairman's Award, the Entrepreneurship Award, and the Woodie Flowers award. In addition, members worked with other departments as well as mentors to create new episodes of AskStuyPulse, FIRSTthoughts, and FIRSTstories. Make sure to check them out on YouTube!



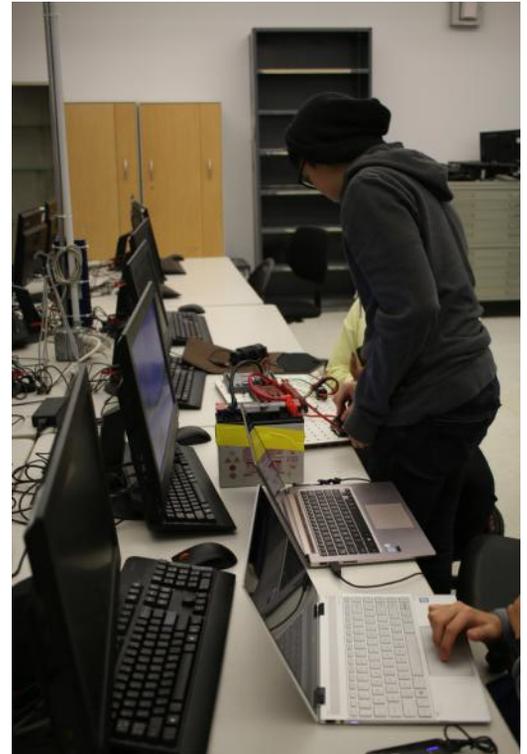
## Engineering

With the continuation of build season, engineering continued working on the prototypes that were started on Week 1. On Monday, engineers started making the team's priority list for the season. This list controls the path the robot will take, including the rest of the season. After a lot of discussion, they finally came up with the list and were able to narrow down prototypes to a select group of mechanisms. By the end of the CAD Marathon, a majority of the CAD for our 2018 robot will be completed. With the start of Week 3, engineering is on track to start the construction of the robot.



## Software Engineering

This week, SE prepared to program this year's robot. They continued testing sensors (gyroscopes, accelerometers, and a variety of sonars) and started testing auton routines that our team will use on this year's drivetrain (including driving a certain distance and rotating a certain angle). These routines will be used to make a mock auton for scoring on the scale with DESTiny. The newbies and the sophomores worked on these projects and learned a lot about writing and testing their robot code. With CV, SE is tackling how to detect a cube from an image that contains multiple cubes clustered together. Next week, software engineers will use what they learned from their tests to hit the ground running and start programming this year's robot.



## Important Dates

Central New York Regional – March 1<sup>st</sup> to March 4<sup>th</sup>  
New York City Regional – April 5<sup>th</sup> to April 8<sup>th</sup>

## Contact us!

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