



# STUY PULSE



REBUILT WEEK 2  
NEWSLETTER  
[01.18.26 - 01.24.26]

StuyPulse  
345 Chambers Street, New York, NY 10282



## Mechanical Engineering

This week, our Mechanical Engineering department continued developing prototypes. They had multiple groups specialized for the robot's climb, intake and shooter. They also worked on the spindexer and indexer, which are different mechanisms that spin to organize and move game pieces to the shooter. Even during Regents testing week, their willingness to work highlights the team's cohesion and group work. We are so proud of their dedication towards a successful prototype!



## Software Engineering

Software Engineering developed code for the Alphabot and the Kitbot, including turrets, and the intake. While working on the Alphabot, the department finished coding the hooded shooter and feeder for the robot. They also added scripts for the turret and assembled them onto circuit boards. Lastly, they also managed the position control to the Alphabot.



## Business

On January 18<sup>th</sup>, the Business department had their outreach meeting on Zoom! Members discussed new initiatives such as expanding our FLL programs. We also brainstormed ways we could improve past initiatives such as having more people be involved in political outreach and demo planning. Business also contacted organizations to obtain yarn to start croqueting.



## FLL Mentoring

Every week, StuyPulse volunteers mentor younger kids in First Lego League teams in Bensonhurst, Williamsburg, and Battery Park City. We teach them critical skills, such as problem solving and teamwork through hands-on STEM experiences. This week, Bensonhurst students continued building the base of their Lego robot and started brainstorming innovations for the FLL Challenge competitions. During our session with Girl Scouts in Battery Park City, the girls worked on robotics code and received their Scout Badges! We are so proud of how far the girls have come as they prepare for their upcoming FLL competition. Unfortunately, we couldn't work with the Williamsburg group since they had to cancel the meeting due to the snowstorm.



## Online Zoom Meetings

On January 17th, Mechanical Engineering met to come up with plans for an early prototype. They thought of details for parts such as the drivetrain, the shooter and turret, the intake, the hopper, the indexer, and on how it will climb. They also made a schedule for the entire build season.





Contact us!

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