



STUY PULSE



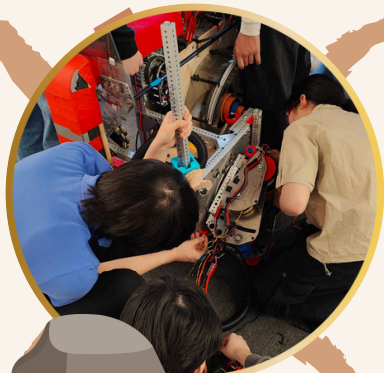
REBUILT WEEK 3
NEWSLETTER
[01.25.26 - 01.31.26]

StuyPulse
345 Chambers Street, New York, NY 10282



Mechanical Engineering

Mechanical Engineering assembled the structure of Alphabot. The Alphabot is a prototype for our actual robot to see if the parts work well. In addition, Mechanical ran a test with the Alphabot drivetrain and fixed the errors that they found. They adjusted the Alphabot CAD and built and mounted the kickbot bumper. They added support for the hopper and modified the shooter turret. Also, they built the structure for the shooter, and mounted and assembled the turret securely. They built a Spindexer, which spins the balls into the shooter, then added it onto the turret. They will decide which prototypes work the best and use them in the robot design.



Software Engineering

This week, Software Engineering focused on system testing, improving faulty mechanics on the robot like the shooting turret, and driving mechanics of the robot. In addition, Software Teaching Assistants taught Software Rookies how to program swerve drivetrains through organized lessons, labs, and simulations.



Business

The department continued to update and brainstorm new ideas to promote our team on social media. We also added to the operations section of our business handbook, which is a cumulative guide to the responsibilities of the department that outlines procedures for various events. Our members continued to edit our three major awards essays: Impact, Woodie Flower, and Dean's List.



FLL Mentoring

Every week, StuyPulse volunteers mentor younger students to teach them critical skills, such as problem solving and teamwork through hands-on STEM experiences. This week, Bensonhurt mentors continued their weekly meetings with the FLL programs. On Saturday, mentors worked with students to give their LEGO robot the ability to move and interact with objects. The Girl Scouts continued working and refining their skills in coding as they get ready for the upcoming competition.



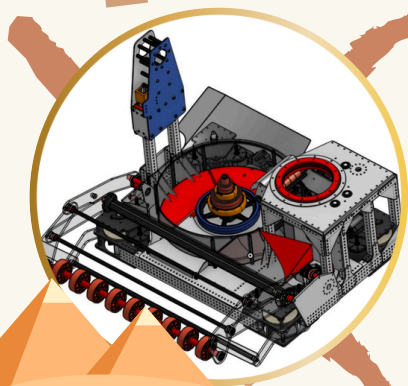
Senior Center Tech Help

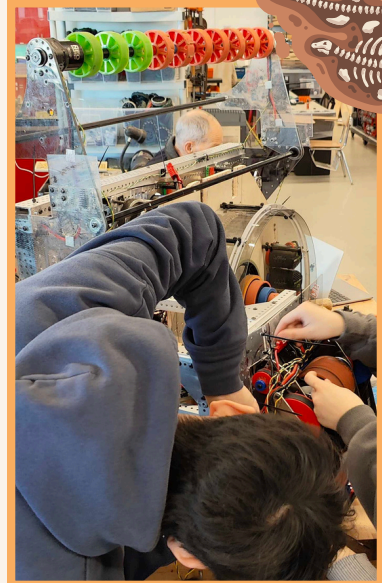
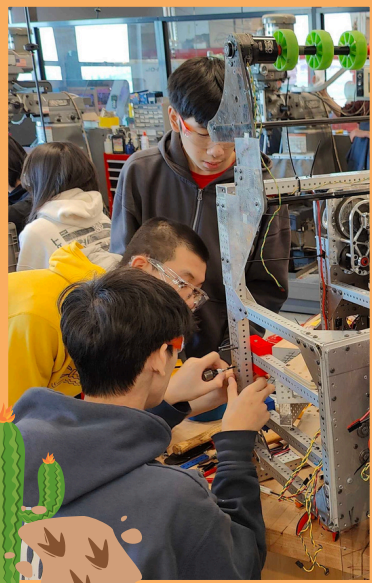
StuyPulse members continued with their biweekly volunteering at the Senior Center. During each session, we assist seniors who have questions about their phones or other devices, teaching them how to solve problems that they encounter. This may include navigating their settings, archiving their emails, or browsing the web. Our volunteers have developed meaningful bonds with our local seniors.



Online Zoom Meetings

On January 25th, our Mechanical Engineering department held a Zoom meeting for our robot's archetype and specific mechanisms for the robot. During the meeting they also started on their master sketch and CAD (Computer-Aided Design).





Contact us!

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