



Stuyvesant Robotics

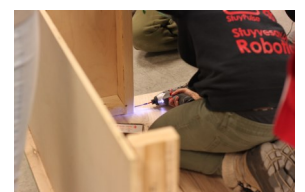
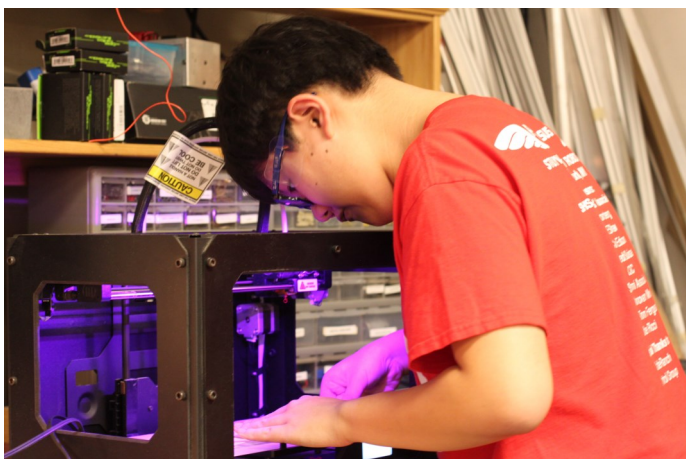
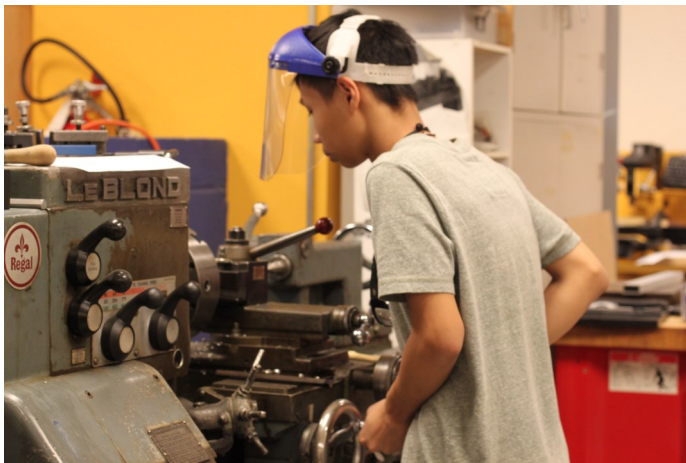
STUYPULSE 694 NEWSLETTER

StuyPulse Team 694 - Stuyvesant High School's FIRST Robotics Team

MEETING RECAPS

ENGINEERING

Engineering are almost on their way to finishing the robot!! For the shooter, holes were drilled into the many different hoods, and rollers were attached. The drivetrain was finally assembled and attached to the chassis, and field construction of the defenses were completed. The non-essential changes were worked on, as well as the human player station. Lastly, members worked on building a modified goal closer to the tower for safety and durability purposes. For electronics, the potentiometer and solenoid were wired for Software Engineering to test, and also started to make the mount for the status light. Shooter side plates and the arms were milled, and, as well, the spacers, the extension tube, and the hex shafts were turned!



MARKETING

Marketing submitted both the submissions for the Chairman's Award and the Woodie Flower's Award after a few long weeks of hard work! Also, in preparation for our competition, more merchandise was created and ordered, and the folders for the judges were worked on. Folders are an important aspect because it provides the judges with information about the team and what it has done throughout the season. The draft for the Entrepreneurship Award was worked on, as it gives a general, but specific, grasp of the budget and information about the team. A PA Grant was successfully worked on so that we may receive more funding to achieve our goals, and plans were finalized for the Military Care Packages Drive that will start this week. Lastly, the draft for this year's magazine was worked on, so that we can have a brief and accurate representation of our team during build season.



SOFTWARE ENGINEERING

Software Engineering worked on many things this past week! For the robot code, many codes were written, such as the potentiometer code for the acquirer, the encoder codes on the shooter, the code for the sonar rig, the solenoid code and the gyro code. Additionally, the Hood subsystem was also made compatible with the double solenoids. All the codes were tested using the test board, and some were patched up as well. Members as well learned the basics of PID and auton choosers were written. For the CV code, interfaces for reading vectors from the serial port on the roboRIO, and processing an image and then sending the vector to the roboRIO were written. Members also worked further on sending data, specifically vectors, through the Tegra to RIO interface.



CONTACT INFORMATION



Stuyvesant Robotics

Stuyvesant High School
345 Chambers Street
New York, NY 10282

Check Us Out!

Email: info@stuypulse.com

Website: stuypulse.com

Facebook: [facebook.com/stuypulse](https://www.facebook.com/stuypulse)

Twitter: twitter.com/StuyPulseRobots

ANNOUNCEMENTS

February 9—Bake Sale

February 9-March 18—Military Care Packages Drive

March 11-13—NYC Regionals

March 30-April 2—South Florida Regionals



ABOUT US

We are StuyPulse, Stuyvesant High School's award-winning FIRST Robotics team. Otherwise known as Team 694, we seek to impact young adults by cultivating skills in engineering, programming, marketing, teamwork, and leadership through the FIRST competitions. At the same time, we hope to educate and inspire people in our community, both young and old, about the wonders of science and technology.

To read more, visit: www.stuypulse.com