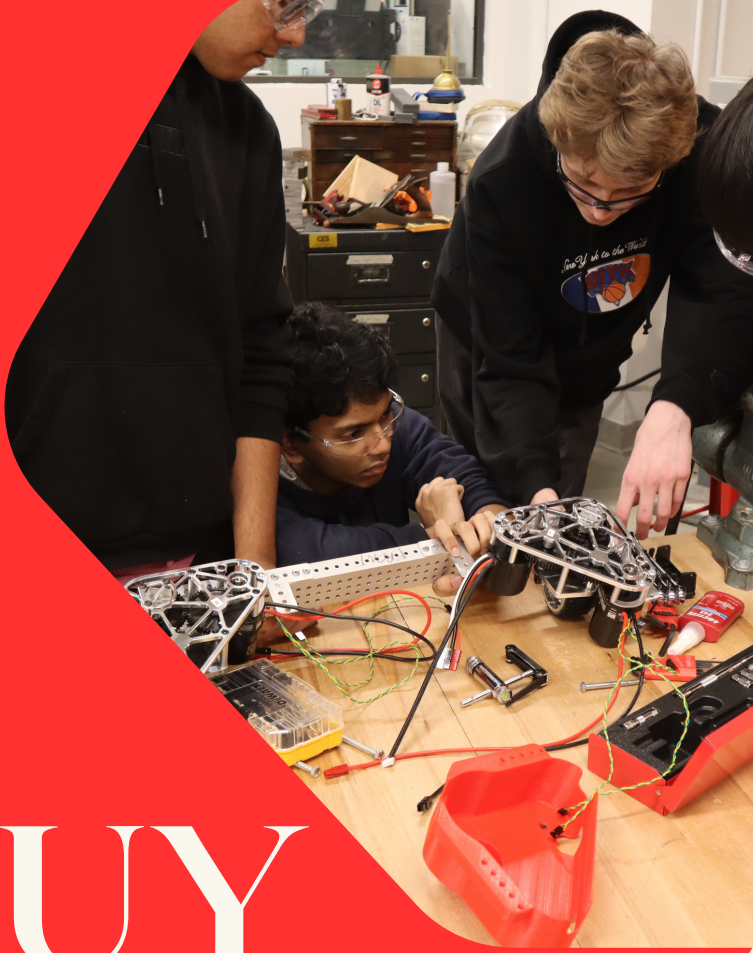


STUY PULSE

WEEK 4 NEWSLETTER

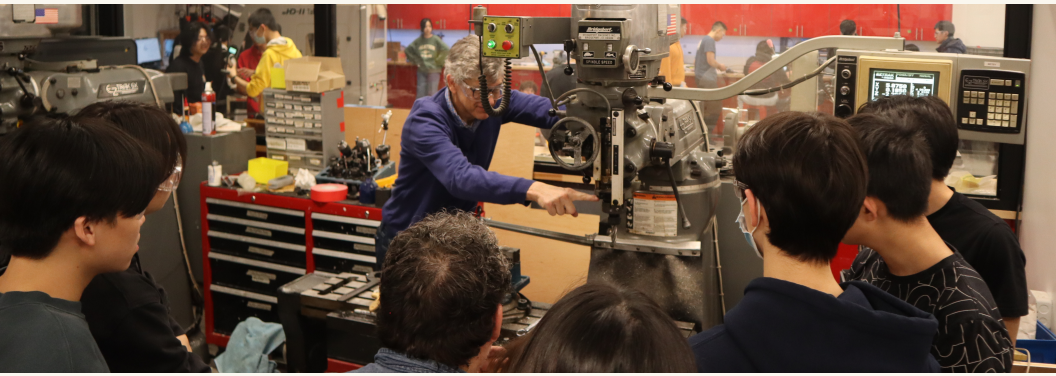
01.28.2024 - 02.03.2024

StuyPulse
345 Chambers Street New York, NY 10282

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Engineering

This week in engineering, engineers finalized their CAD prototypes and started to 3D print the mechanisms they have been prototyping for the past month. Also, shafts, which are long circular tubes used to deliver power to the robot, have arrived in our robotics lab! Engineering groups have been busy cutting shafts to implement into their mechanisms. Slowly but surely, the 2024 bot is coming together. We hope to soon have more mechanisms made and finalize our plans for this season.



So, how are the prototypes going for the engineering groups? The lift group, responsible for implementing the game piece are revising the mechanisms in regards of the spacing between the parts. The drivetrain, managing the movement of the driving axles are switching the material of the bumper to maximize resistance. Moving on, the conveyor group, that connects the different parts of the bot, have been busy repositioning the motor of the bot. On the other hand, the shooter group, in charge of ejecting the game piece are switching the wheels to increase the grip onto the game piece. So, as you can see this week was definitely a big week for engineering as we are wrapping these prototypes up!

Software Engineering



Our software department was still divided off into different teams. The main groups included LEDs, driving assist, and note detection. The new group, LEDs mainly focused on creating the code for LEDs this week.

However, with some time at the end of the week, they tested the code as well. The driving assist group made sure the robot could turn to a nearby note as well as turn while moving. The note detection group reviewed vector algebra to make sure newer members understood the aspects of note detection. The code was also improved on after realizing some mistakes.

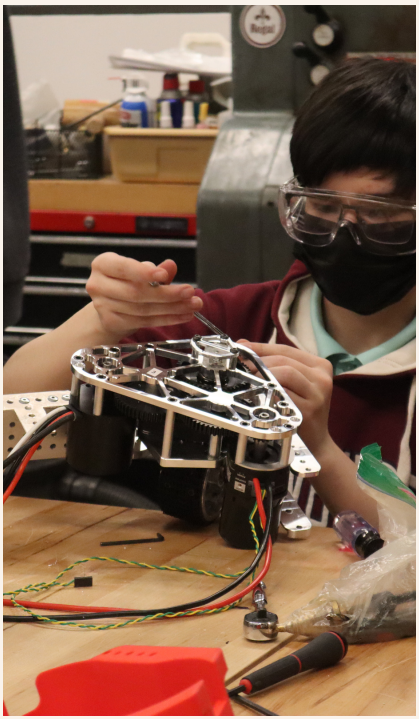


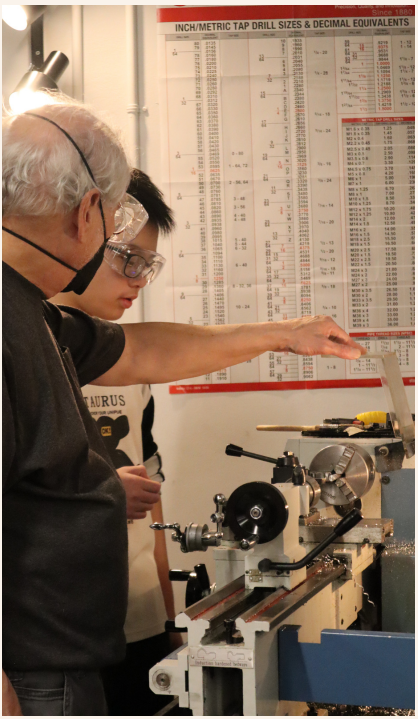
Business Department

This week, some members of the business department mentored a girl scouts FLL team. They coded and built a light show! During the process, they understood the different aspects required to complete it. We completed all the preparations necessary for the StuyPulse Valentine's Day bake sale taking place on February 12th. We emailed the volunteer forms to both parents and members and hung up flyers around our school, promoting this event. The SC Johnson grant is also reviewed and finalized to submit.



Moreover, we brainstormed ideas for content for the Impact Award essay. This week, forms were also sent out announcing the t-shirt orders for this season. Preparations were also made regarding the production of the t-shirts and the design itself. Members of the business department also edited the executive summary. Finally, we worked on writing a script for the Impact Award video. Speaking of the Impact Award video, tryouts and testimonials were also held this week!





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