

STUY PULSE

WEEK 5 NEWSLETTER
02.04.2024 - 02.10.2024

StuyPulse
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Engineering

Our engineering team has been working overtime to have the robot finished within this week so that it can be passed on to the software engineers. Throughout this week, engineers have been busy revising, 3D printing, and placing parts onto the robot. Although the mechanisms aren't finished yet, engineering is working their heart out and we hope software engineers will receive the robot by next week.



So, what have our engineers been up to regarding the revisions to their mechanisms? The engineers are split into different groups, each prototyping a piece of the robot. The lift group responsible for executing the game piece is having discussions about the placement of the gears. The conveyor group, which connects the different parts of the robot together, is busy adjusting the speed of the motors. Additionally, the shooter group, in charge of designing a mechanism that launches the game piece, is revising the distance between the wheels. Lastly, the group working on the amp (the mechanism that scores the game pieces) is altering the size of their rollers. Our engineers are definitely working hard and we all appreciate the efforts they're putting in during the last couple weeks. There's only a few days until the South Florida Regional!

Software Engineering



Because the robot is not yet ready to test, the SE department is working on pre-coding the mechanisms. This is so their testing will be fast and efficient when they do get their hands on the robot.

One of the main things SE has been working on is swerve setpoint generation, which enhances our swerve drive modules and thus the movement of our robot overall. The SE department has also offered their assistance with team 8880, CPSA Terra Cyborgs, and suggested a way they could fix their encoders. Overall, progress has been smooth!



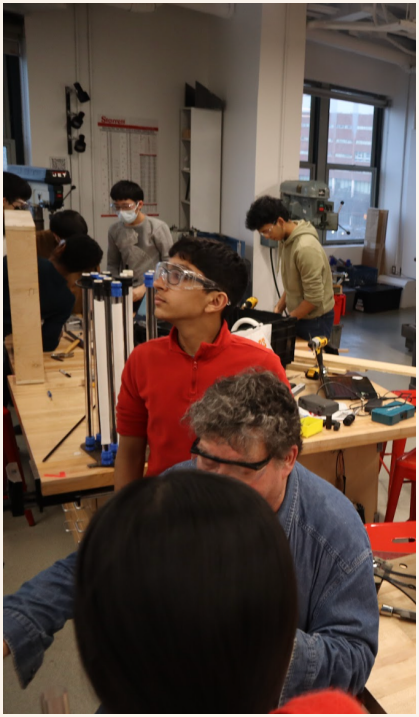
Business Department

Members of the business department have been busy editing essays for our mentors, Navid and Shelley, who were chosen to run for the Woodie Flowers Award (WFA). This award is given to celebrate mentors with effective communication in the art and science of engineering and design. Additionally, tryouts for the impact video narrator were held this week! During this process, those who choose to try out read off a script - which the impact team will use to decide the best fit for the narrator.



Business members are also working on a new grant for Toyota and a proposal for a demo at the Oculus! Additionally, there was a FLL Girls Scout meeting this Tuesday where students from our team taught children within our area about the core values of FIRST.





Contact us!
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