October 14, 2022

FOCUS

building (Group 1): Starting to design claw

building (Group 2): Building Cascade Lift

building (Group 3): Building arm for lazy susan

coding (Group 1): Virtual Robot Simulator + Drivers perspectice programming

business (Group 1): Budget proposal, October Newsletter, and Google Calender

SUMMARY

building (Group 1): We drew out the designs for two different claws and started to use CAD to design the lego-hand style one. We used CAD files from the official REV website to help us with measurements.

building (Group 2): Ava and Liza figured out the seesaw math. Then we all started to build the cascade lift using fishing line and surgical tubing. We had lots of fun discussing the pasta like properties of surgical tubing

building (Group 3): We added chain with an idler pully to the revolute joint arm. The arm is powered by a motor that is attached to a hex shaft that rotates the gear attached to the chain.

coding (Group 1): We started a presentation on the Virtual Robot Simulator to share with everyone that explains how to use it. We also got a finished chassis from the building team and successfully wired it. It is ready to be used for testing. We also started to research driver's perspective programming. There weren't many people today, so it was more about individual learning.

business (Group 1): We finalized the budget proposal and October newsletter - both are now ready to be sent out. We also begun a universal google calender, although it needs reviewing.

CHALLENGES

building (Group 1): Measurements are very hard to figure out, especially when they were so small!

building (Group 2): We had some issues putting through the surgical tubing, but figured it out! we basically guessed the whole way and it turned out great.

building (Group 3): The chain was too long for the length of the metal flats and had too much slack, so we added an idler pulley.

coding (Group 1): Driver's perspective programming is a lot harder than we innitially thought (better as an off season project)

business (Group 1): Not many people were here today and there were no notes on what was accomplished or needs to be accomplished.

NEXT STEPS

building (Group 1): Continue designing the claw prototype and print it out to test

building (Group 2): attach the motor!

building (Group 3): Prototype claw for the arm

coding (Group 1): Work through driving library and ideally get the chassis moving.

business (Group 1): Send in budget proposal, reach out to final sponsors, fill out grant apps, start designing merch, finish google calender, POST VLOGS