December 3, 2022

focus:

Parking autons and strafing

summary:

Created and tested the autons for just parking in all starting locations. Tested strafing over long distances. Created function in auton library to accelerate and deccelerate in increments (so it doesn't drift when it tries to stop)

challenges:

It didn't strafe straight, and it kept drifting. Even float stop didn't help it strafe straight. I created function in AutonLibrary so the robot accelerates and deccelerates in increments.

next steps:

Test strafing increments in long distances

focus:

Ground, low, and high junction strategies for auton

summary:

Developed auton path strategies for parking, ground, low, and high junctions. Wrote basic driving/turning code for each of these strategies. Also developed a key for the different parts of the field

challenges:

Have to contend with strafing problems and figure out distance travelled

next steps:

Add arm and claw code, test, add distances

focus:

Encoders

summary:

Finished writing code for driving encoders. Fixed any references to encoders in auton.

challenges:

No dead wheels attached to the robot (coded encoders for the wrong type of wheel). Constants are wrong. No testing was able to be done.

next steps:

Attach deadwheels to robot and test encoders. Code/logic should be ok, so only constants like diameter, tick count, and revolutions need to be changed

focus:

arm stuff

summary:

I wrote code logic for the arm. I implemented limit switches. I found the converstion factor between rotations and cm. I made controller diagrams

challenges:

I didn't have the robot for a while so it was hard to test. Also code I wrote the arm with encoders didnt work

next steps:

confiure limit swtiches so i can test that part of code. Check to make sure the converstion facctor is correct. Figure out why encoders code didn't work.

focus:

Engineering portfolio

summary:

today we spent time updating the engineering portofolios. We made a new google doc for each team to lay out all the important information we want to include, and we start adding it to canva soon. We also vlogged our meeting.

challenges:

next steps:

continue EPs