October 22, 2022

whole team

focus:
Planning Scrimmage Activities

summary:
Today, we figured out the Mario kart track, the networking whiteboard, and bingo questions for scrimmage activities. We also took a laser cutting break!

challenges:
We were stellar.

next steps:
Finish up the Bingo form and send out to teams, make sure to premake the whiteboard before the scrimmage, keep on working on mario playlist, format and print enough bingo sheets for scrimmage

building

focus:
Mount for conrol and expansion hubs

summary:
I laser cutted a board with holes for screws to connect it to the hubs and the chassis.

challenges:
At first, the board was intended to go at the bottom of the chasis, and the hubs would be attached with velcro. This ended up not working because it did not provide easy access to the hubs. When I switched to a verticle board, the connections to the chassis were difficult to make because the screws tend to slide in the hex shaft.

next steps:
Attatch the hubs to the board, tighten screws that attatch the board to the chassis to make it secure

focus:
Claw prototyping

summary:
Attached the servos to the wood piece and screwed on the claws to the servos

challenges:
The servos were a little bit too close together and we had a little bit of difficulty screwing on the servos

next steps:
Space out the servos more/find better fitting screws

focus:
Chassis building

summary:
stabilized and put spacers in old chassis, fixed wheels so they're ready to be attached next week

challenges:
we did not have a computer to CAD the pieces we needed, and we ran into a few problems with getting the spacers in as everything was not constructed perfectly square

next steps:
CAD piece to attach wheels, attach motors

coding

focus:
TeleOp + RoadRunner

summary:
Read through past teleop code for Liftie and made a base code. Excluded b on joystick. Read Learn Road Runner to understand more odometry and feedforward control vs PID velocity

challenges:
Not many challenges with the new teleop, but we did decide to exclude the 'b' button that swtiches the type of brake stop because we found it unnecessary.

next steps:
Keep going through RoadRunner (planning on doing feedforward control)

focus:
Strafing Math

summary:
Looked through strafing math and tested for diffferent cases (moving forward and turning at the same time)

challenges:
we dont know why the turning variable was negatized also I'm only in geomtery so the math is confusing

next steps:
adding this into auton and using the math in other places

business

focus:
Newsletter, sponsors, budget proposal

summary:
We sent out the October newsletter, printed out the budget proposal, emailed all our old sponsors, fixed the PR packet, and updated the Google Calendar through our second qualifier.

challenges:

Forgot to BCC everyone on the newsletter. PR packet was sent out accidentally last couple meetings with a lot of errors that needed to be fixed

next steps:
Vlogs and give budget proposal to business department. Prepare for scrimmage