

October 22, 2022

FOCUS

entire team: Planning Scrimmage Activities

building (Group 1): Mount for control and expansion hubs

building (Group 2): Claw prototyping

building (Group 3): Chassis building

coding (Group 1): TeleOp + RoadRunner

coding (Group 2): Strafing Math

business (Group 1): Newsletter, sponsors, budget proposal

SUMMARY

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

building (Group 1): I laser cutted a board with holes for screws to connect it to the hubs and the chassis.

building (Group 2): Attached the servos to the wood piece and screwed on the claws to the servos

building (Group 3): stabilized and put spacers in old chassis, fixed wheels so they're ready to be attached next week

coding (Group 1): 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

coding (Group 2): Looked through strafing math and tested for different cases (moving forward and turning at the same time)

business (Group 1): 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

entire team: We were stellar.

building (Group 1): 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.

building (Group 2): The servos were a little bit too close together and we had a little bit of difficulty screwing on the servos

building (Group 3): 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

coding (Group 1): 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.

coding (Group 2): we dont know why the turning variable was negatized also I'm only in geomtery so the math is confusing

business (Group 1): 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

entire team: 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 (Group 1): Attatch the hubs to the board, tighten screws that attatch the board to the chassis to make it secure

building (Group 2): Space out the servos more/find better fitting screws

building (Group 3): CAD piece to attach wheels, attach motors

coding (Group 1): Keep going through RoadRunner (planning on doing feedforward control)

coding (Group 2): adding this into auton and using the math in other places

business (Group 1): Vlogs and give budget proposal to business department. Prepare for scrimmage