

# December 2, 2022

## FOCUS

**building (Group 1):** Putting together little chassis

**building (Group 2):** Physics for the arm

**building (Group 3):** Battery replacement

**building (Group 4):** Attaching and wiring the wheels on 13620

**business (Group 1):** Engineering portfolio brainstorm, vlogs, november newsletter

## SUMMARY

**building (Group 1):** We finished putting together the frame of the new little chassis.

**building (Group 2):** We did some center of mass physics to figure out the center of mass of our mechanism

**building (Group 3):** We put the control and expansion hubs vertically on the robot after thinking of a few different ways to do it. We also sort of made a spot for the battery but it's not secure. We also wired the motors into the hubs for the wheels.

**building (Group 4):** We attached the wheels, had some trouble fitting the spacers in and everything. Then, we had to find the dremel to cut off extraneous hex shafts to attach the other two wheels. Finally, once the control hub was attached, we wired the motors.

**business (Group 1):** We spent a long time brainstorming for both engineering portfolios, singling out what parts of our story this year are most important to each team/robot. We finished the november meetings vlog and posted it, and also sent out the novemeber newsletter to our very \*dedicated\* fans.

## CHALLENGES

**building (Group 1):** The alignment of the hex shafts was slanted so we needed a lot of strength to move it to the right spot in the channel

**building (Group 2):** we couldn't find the true mass of each part, so we had to guess

**building (Group 3):** We finished it mostly but the battery space isn't very secure

**building (Group 4):** troubles attaching the wheels

**business (Group 1):** Hard to start from scratch with the portfolios instead of editing old ones from previous years, but it will be worth it in the end because each year is so completely unique!

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## NEXT STEPS

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**building (Group 1):** Finish screwing in all of the screws for chassis frame

**building (Group 2):** plan out and make changes to the arm

**building (Group 3):** Make battery area better

**building (Group 4):** none for this part

**business (Group 1):** engineering portfolio = priority!