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ARVP

NEWSLETTER

JULY, 2024

RoboSub Ready!

ARVP is gearing up for our main event this year, Robosub 2024. We ship out to California for the week-long competition this Saturday. ARVP has been focusing on all our last minute preparations.

Our wiring harness has gotten cleaner and we have added more labels for better documentation and ease of troubleshooting. Additionally, we've merged the actuation and internal environment boards to reduce the overall electrical footprint inside Arctos. Outside of the bot, ARVP has been 3D printing and soldering spare boards non-stop. We've also received new charges to cut our discharge wait time from 12 hours to 2 hours. Lastly, the execs have been practicing our design strategy and system assessment presentations.

At this point, all that's left to do is leave! We're incredibly excited and nervous, but that's the fun of competition :) Thank you so much to everyone in our community that cheered us on and helped out this year. Fingers crossed we'll return with good news!

ACCOMPLISHED TASKS ✔️

☑️ Competition Presentations Practice!

☑️ All new Control Board!

☑️ Faster & Trackable Battery Chargers!

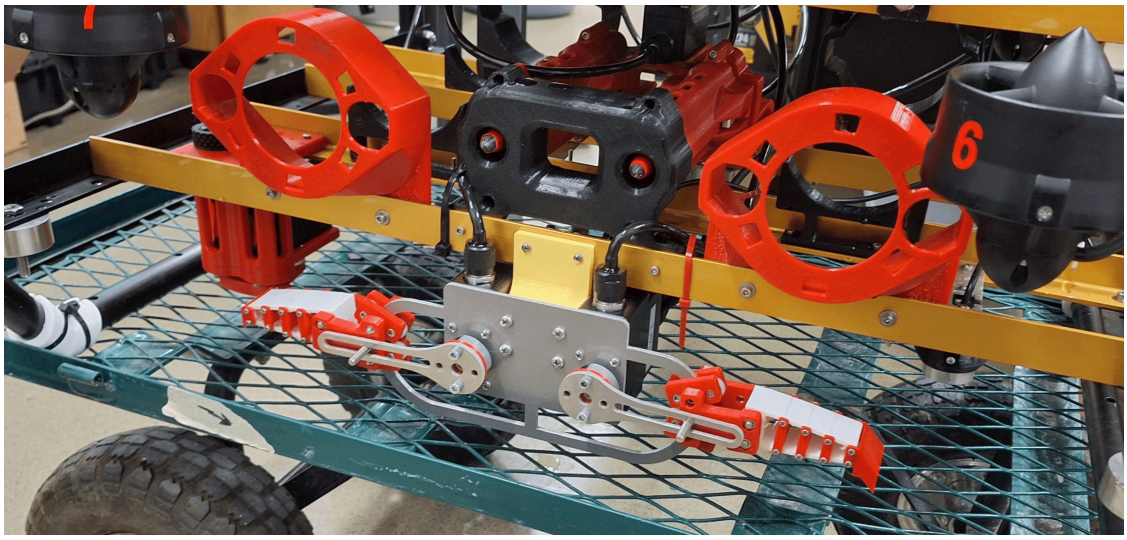
MEMBER QUOTE 😎

"Getting Cuda to work? Nice try, you can't."

- *Cole Dewis (Software Team Member)*

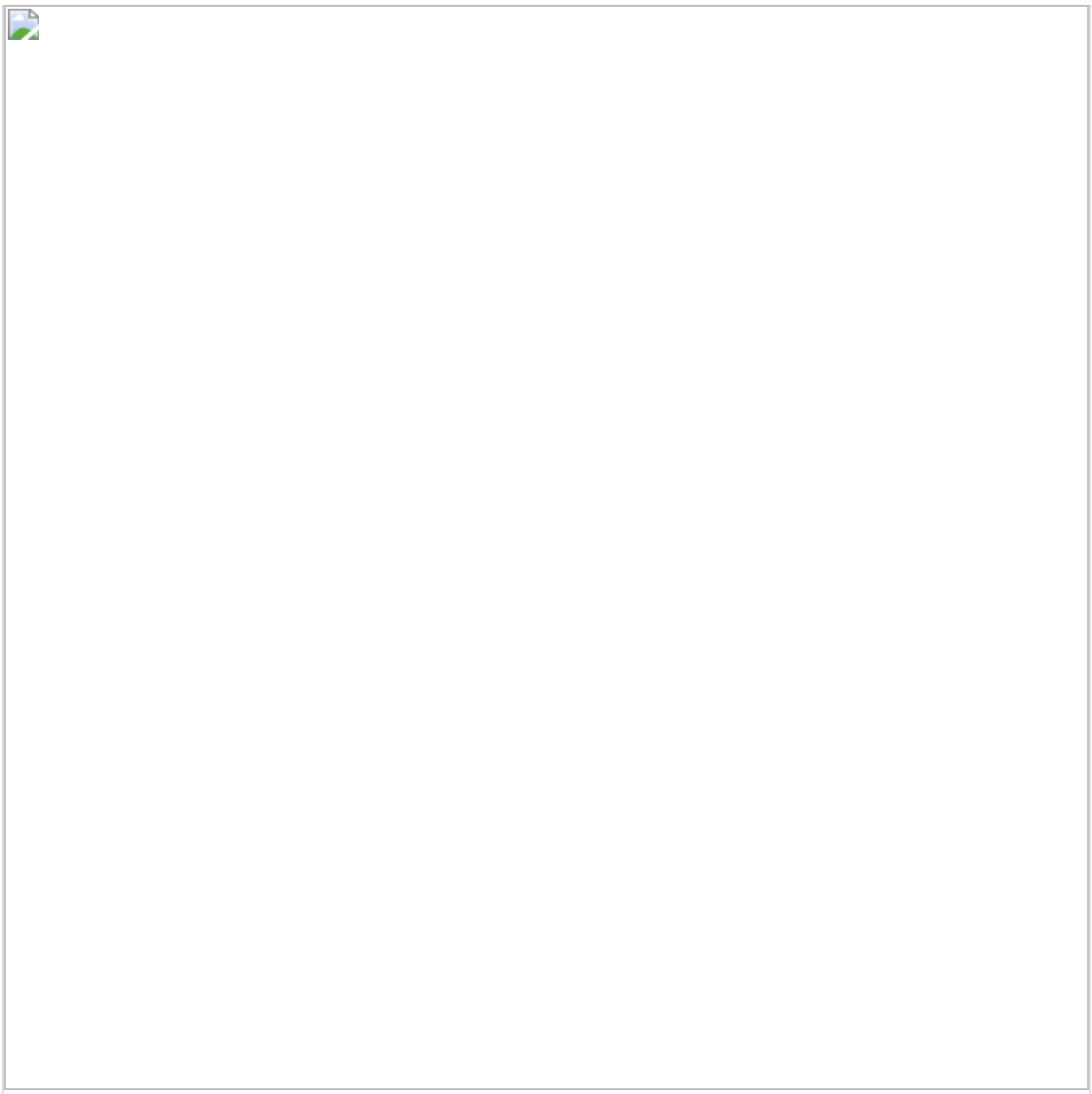
Mechanical: Working Claw!

Mechanical has been hard at work redesigning our new claw for this year's course. The end effector will have new sensors connected via the control board that can detect when it has picked up objects through current draw spikes. The spikes will also help us detect when the claw's two servos are smashing into each other, which will prevent them from burning out. This will boost the reliability of the device and along with its new reinforced design will increase each claw's lifespan tremendously.



Final Pool Testing!

ARVP just had our last pool test before RoboSub 2024 and we're pumped to get Arctos down to California this weekend for further testing!



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With competition just around the corner we wanted to share some highlights from testing! Pretty much everything is a go - just tuning our torpedo shots and claw pickups. (I don't think picking up the table is allowed 🤣)

#ARVP #Robosub #Robotics #AI #Engineering #UofA #MachineLearning

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