



ARVP

NEWSLETTER

NOVEMBER 30, 2023

Shutdown, Restart, No Sleep!

As November comes to an end, ARVP has officially had its final pool test of 2023! A lot of our members stayed late into the night to see Arctos in the water one last time before shutdown. During this period, our members will be busy doing some major upgrades to the bot in order to prepare it for the coming competition this summer.

Unfortunately, Arctos getting a shutdown doesn't mean that we get one! In fact, quite the opposite as our members eagerly decided to add an extra grind work session during our reading week on Monday. Proving our members passion and dedication with a hefty number of folks showing up and the club providing pizza for a day of hard work.

Within this month, ARVP's priorities have been shifting with Arctos' reliability being as stable as it is now. Club co-leads now want to focus more on building and maintaining documentation, verification, and validation to ensure that our knowledge and competitiveness stays consistent through the years. We have started overhauling our website design, content, and producing more documentation. Aiming to plow through RoboSub 2024 and make our team more accessible to future member generations and sponsors.

ACCOMPLISHED TASKS ✓

MEMBER QUOTE 🤔

"Blocked by myself"

✓ Last Pool Test of 2023, featuring updated sensor fusion!

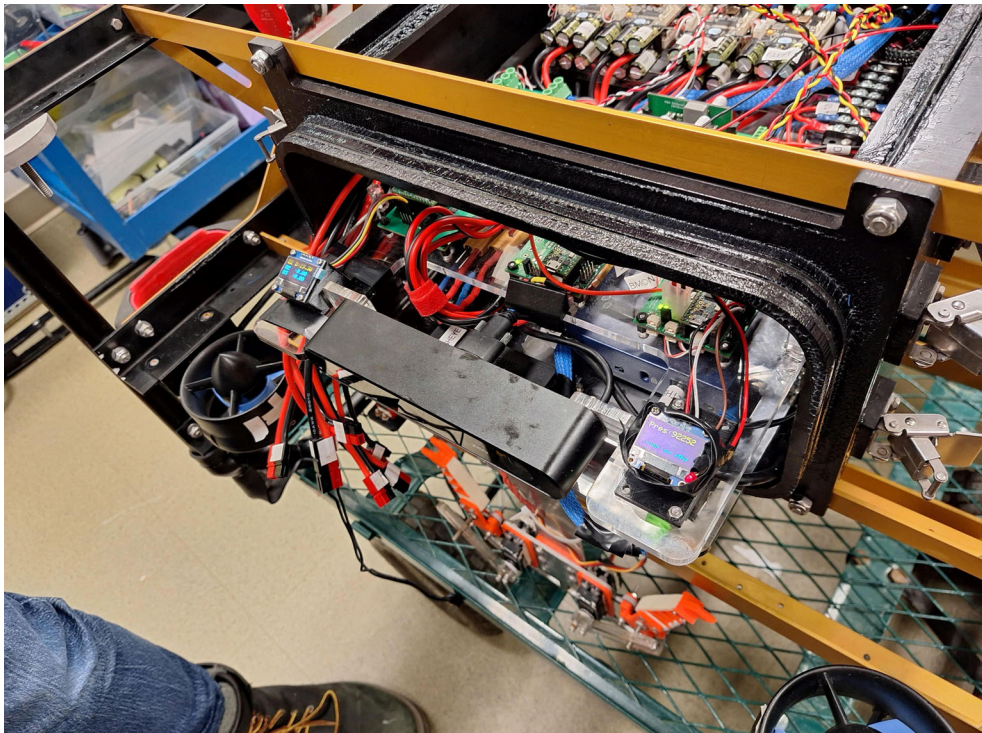
• Nazmul Arefin (Electrical Co-Lead)

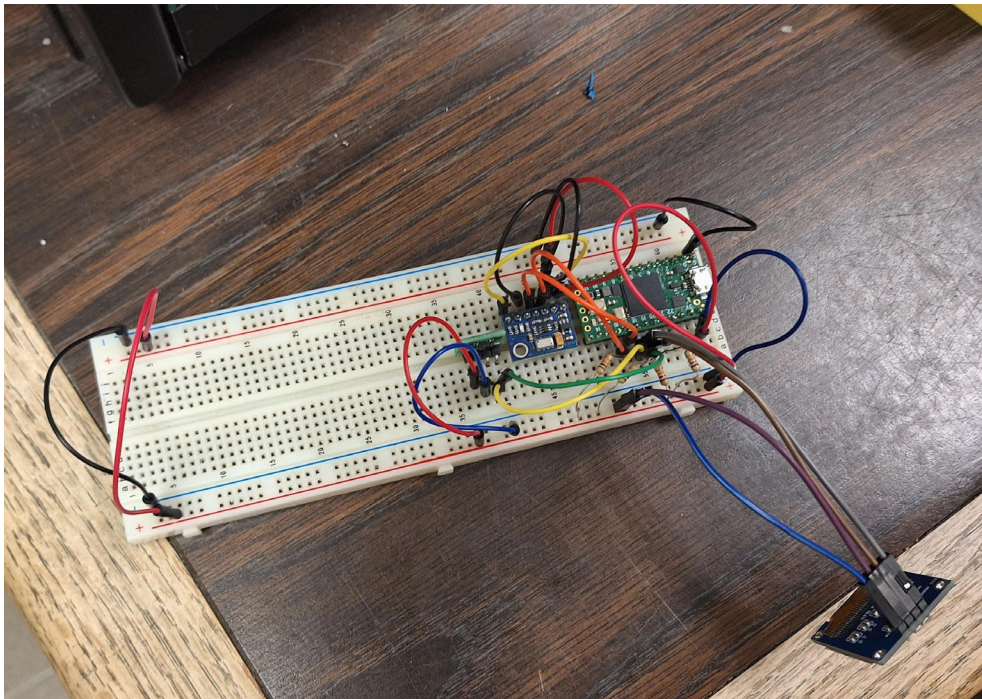
✓ Arctos Shutdown for machine shop work!

✓ New torpedo systems and electrical boards!

Electrical: Control Board Testing

Arctos' control board is a combination of our environmental stats and actuator board. Environmental displays pressure, battery power, and with the help of our new OLEDs: temperature. While our actuator board decides how to engage our thrusters, claw, and torpedoes, we have been testing a new version of this system through a simple breadboard setup from an electrical kit below. This simulates our schematic designs and helps ensure that they work before we do our custom PCB order!





Last Pool Test of 2023!

Checkout our final time with Arctos in the water for 2023!



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Last pool test of 2023 🥲

It was a very productive year for Arctos, and we're proud of our dedicated members for all their hard work. ARVP has now begun the Arctos shutdown for maintenance and our team is hard at work doing some major upgrades -- highlights include external batteries and updated subsystems! But don't worry, Arctos will be back up and running with an improved system in the new year! 🔥

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Support Highlight

Principle Investigator

Dr. Michael Lipsett

ARVP's growth and success this year is largely due to the team's deep support network. Sponsors, alumni, ESP staff, robotic industry leaders, and international peers have all contributed to ARVP's increasing momentum. In particular, the team would like to thank their Principal Investigator, Dr. Michael Lipsett. As the experiential learning team is still working towards formalizing the role and responsibilities of PIs for Engineering Student Projects, Dr. Lipsett's cold eyes reviews and management advice have been invaluable. Both he and his assistant, Rachel Schofield, have also been extremely helpful in navigating the university financial system.



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AUTONOMOUS ROBOTIC VEHICLE PROJECT

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