ARVP

NEWSLETTER

JUNE, 2024

Submitting Everything!

Hey folks! Tomorrow ARVP's design deliverables for RoboSub 2024 are due! This includes our team video, technical report, and website. Our team video has been posted, check it out down below! 😉 Our website has been revamped for everything 2024 with our new members, outreach events, sponsors, our technical report, and more.

We've also reached mechanical and electrical stability on Arctos. We're super happy to see software getting the proper uninterrupted pool test time they need. To achieve this, both Arctos' wire harness and hull seams have been redone and upgraded. Both teams are now in the process of building spare systems to prepare for competition when things will inevitably break.

Robosub 2024 will have different variances of the same tasks so we have been gathering and labeling more data for the new gate, buoy, dropper, and torpedoes. To ease some labeling boredom, we have been cheering on our fellow Edmontonians, the Oilers, and have done a watch party and barbeque with the team. Thank you for giving us a great finals series, we got so close!

With newly labeled data, our vision models for bins, gate, and buoy are now working better than last year, running on a Rust based pipeline. The new motion planner is also operational, which has allowed us to create this barrel roll move in the simulator and instruct the robot how to move accurately in 3D space. Making significant headway, but ARVP is still working hard with competition being a little over a month away!

RoboSub 2024 Countdown!

33 10 59 33

Days Hours Minutes Seconds

ACCOMPLISHED TASKS ✓

- ☑ Website Fully Updated!
- ☑ Technical Report Done!
- ☑ Team Video Completed!

MEMBER QUOTE 😎

“You’re on demand girl, slay.”

- *Basia Ofovwe (Admin Member)*

Electrical: Passive Sonar Board!

Jad Dib has been hard at work refining our new sonar board in Altium based on Cody Sorochan's schematics, which improved on previous versions from the club's history. The design process involved organizing different sheets by their roles, such as power and input, to streamline the design. We addressed issues with faulty library components by manually correcting their footprints. Jad also resized keep-out layers to ensure proper component connections and completed polygon pours and vias to improve grounding and signal integrity. This project is one of Arctos’ largest functional additions. Thank you, Jad and Cody, for all your efforts!

ARVP Team Video!

As part of our RoboSub 2024 competition deliverables, we're tasked with delivering a team video introducing the team, its personality, and what we've improved on Arctos!

Checkout the video on our YouTube channel 😎

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AUTONOMOUS ROBOTIC VEHICLE PROJECT

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