



ARVP

NEWSLETTER

DECEMBER 31, 2023

Transition to ROV Testing!

With finals season rearing its head this December, ARVP has had a relatively slow month. The main project that's been advanced is Arctos' retrofit. Every purchase for major battery, tether, and subconn modification is now received, and the hull has been prepared for new fittings. Hopefully the retrofit should now simply entail adding + routing additional enclosures in time for our first pool test of 2024 on January 24th!

Speaking of which, ARVP will be officially switching gears starting in the new year. These last 4 months have been predominantly focused on design work, procurement, and improvements to our sensor fusion. Starting in January, the team will focus on testing! The Mechanical team has recreated the RoboSub 2023 obstacle course for our use at Kinsmen Sports Centre – ARVP will be taking the weekends to attempt the course while tethered to ensure Arctos can complete all challenges. The data will be used to improve our models for full autonomy starting in April. At the same time, new systems will be tested thoroughly prior to integration into Arctos.

Other things making progress this month include the Admin team kicking into full gear! With competition registration complete, the subteam is now focused on competition deliverables. This includes the creation of a website, team video, technical paper, and design presentation. At RoboSub 2023, the judges' comments highlighted ARVP's need to improve testing documentation overall. The plan is to store that information publicly on our website, where we'll also be adding Arctos System Breakdowns, a fleshed out ARVP history, as well as social updates. Stay tuned for when the changes go live!

ACCOMPLISHED TASKS ✓

✓ All Retrofit Materials Arrived!

✓ Showcased to the Royal

Canadian Navy!

✓ Sponsorship Package Updated

and Published!

MEMBER QUOTE 😎

"Only in ARVP can you have a 5-minute argument about popcorn sensors"

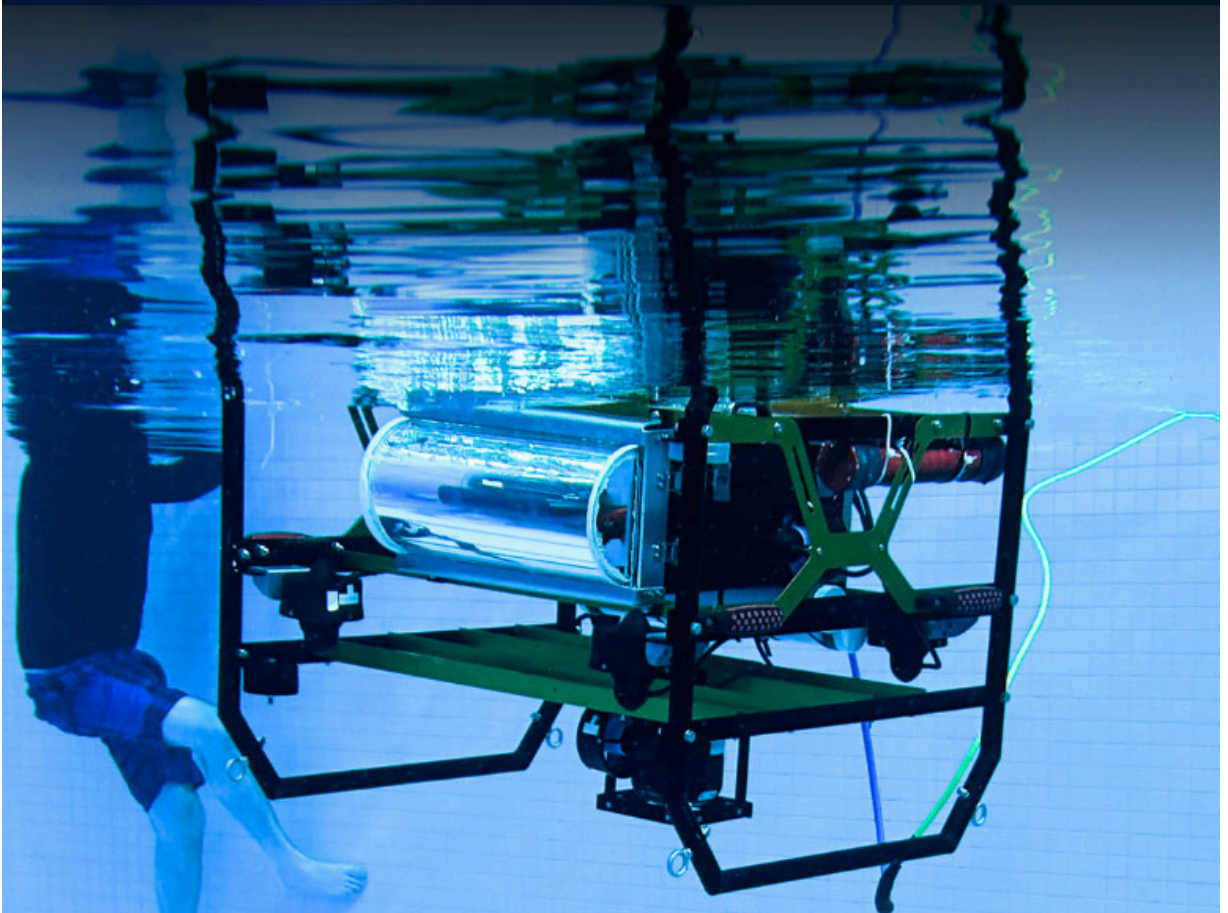
- *Nathan Chong (Project Co-Lead)*

Admin: Sponsorship Package



Autonomous Robotic Vehicle Project

Sponsorship Package
2023-2024




Interested in sponsoring ARVP? Well, our Admin team has been hard at work to update and improve our benefits from previous iterations – this is the best time to donate!

Admin members worked with the University of Alberta's Advancement Team to streamline our benefits into Partner, Support, and Donor levels. ARVP has also redeveloped how projects are chosen and documented to help sponsors at the Partner level.

These changes have been bundled into a gorgeous and comprehensive package, containing a full overview of ARVP. You can check out our [2023-2024 Sponsorship Package](#) on our website under the [Sponsors tab](#)!

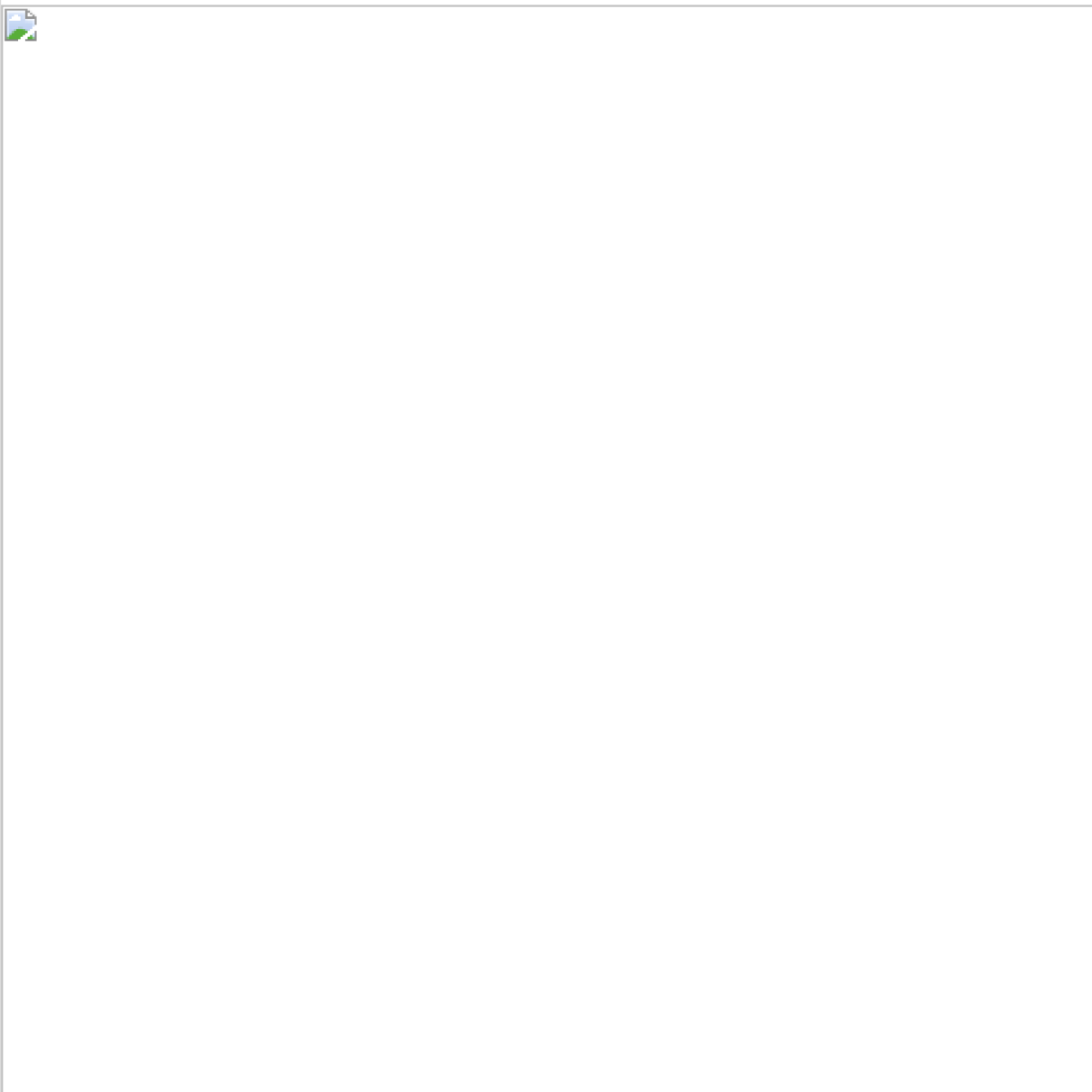
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Thank you again for showing our members what you've been up to as of late @copperstonetech! We had a blast and learned lots during our visit in November -- hope to see you again next year! 😊

#ARVP #Robotics #AI #Engineering #UofA #MachineLearning #copperstone

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Sponsor Highlight: Altium

The team at Altium has supported ARVP through access to Altium Designer Licenses, training, and technical support. Altium Designer is an intuitive, cloud-based file management tool; when combined with Altium 365, which is a PCB focused CAD software, our electrical team is able to complete all their design work. Thank you to Altium for their support and phenomenal tools!

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Sponsorship Package

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AUTONOMOUS ROBOTIC VEHICLE PROJECT

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