



ARVP

# NEWSLETTER

JULY 31, 2023

## Shipped Off and Landed!

Greetings from San Diego, California! ARVP has finally arrived at RoboSub 2023 and we're ready to compete along 40+ international teams this year!

This month our wonderful Mechanical Leads built us a [crate that has shipped Arctos](#) and our competition equipment to San Diego. While the forever on the grindset Software Team has achieved a milestone; getting the vision model to accurately identify buoys – check it out on our [Instagram](#)! The steadfast Electrical Team has fixed the tether and [assembled the new electrical tray](#) for Arctos. At our final work session before competition, we had a [community BBQ event and tie-dye party](#) for ARVP which you can also check our Instagram post on!

ARVP is ready to give it our all at competition, you can stay posted on our activities at RoboSub through our [Instagram](#) and [website](#)!

### ACCOMPLISHED TASKS ✓

- ✓ Shipped Arctos to San Diego!
- ✓ Vision model identifies bounding boxes for the buoys!

### MEMBER QUOTE 😎

*"A cpu doesn't need a driver, it'll just start.....I think"*

- Akemi Izuko (Software Member)

 All subsystems mounted on

Arctos!

## Arctos: Changes Insight

Prepping Arctos for the competition prompted our team into making some changes. Check out the modifications we've made!

- New ESCs for better thruster control
- The CANBUS which used UAVCAN is now using Flex CAN
- Added an OLED screen for displaying internal pressure, temperature and EE Battery voltage for the Mechanical Team to do pressure tests without the need of involvement from the Software Team
- Changed the Electrical Tray layout and completed Arctos' Power and Communication Overview
- New firmware for the Actuator Board to control Droppers, Torpedoes and the Claw

## Final Pool Test with Arctos

Checkout our time with Arctos for the last time before we shipped it off to San Diego, California for competition!



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On July 8th, we had our last pool test before getting ready to ship Arctos off to San Diego for RoboSub 2023! A big thank you to Kinsmen Sports Centre for allowing us to use their facility throughout the year for testing! 😊

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