



ARVP

NEWSLETTER

OCTOBER 31, 2023

Midterm Fright!

Haunting our members this October is the sad reality of midterms. Given everyone's focus shift – balancing academics and extracurriculars – our work rate has slowed, resulting in limited progress this month. Nonetheless, our members have continued to work hard throughout our work sessions and bi-weekly pool tests making small pushes for headway. We've been able to get a consistent skeleton group of members running the pool tests to ensure that possible upgrades, maintenance, and testing on Arctos continue to be made. As a treat, ARVP held a small Halloween potluck where our members dressed up in spooky costumes, brought food, and some board/party games to share for a night!

ACCOMPLISHED TASKS ✓

- ✓ ARVP at Open House!
- ✓ Halloween Potluck!
- ✓ Code Maintenance & New Torpedo Launcher Designs!

MEMBER QUOTE 😎

"For the next newsletter can you put 'onxx' and/or 'goots'...or both"

- *Sam Scholnick-Hughes (Software Member)*

Mechanical: Battery Enclosure

Our Mechanical Team has been tasked with designing a new battery enclosure for Arctos! The goal is to move them outside of the internal hull where they are subjected to heat and pressure, as well as potential water damage to the electronics when changing out the batteries.

This initial concept will involve two sets, a current and a spare, of two cylindrical containers below and separate from the main hull for easy battery replacement and storage. This new approach for the battery enclosure will involve cutting down our battery count from five to four, and creating two pods that will hold two batteries each. They will be connected to the main hull via hull penetrators (waterproof openings for wire), and there will be a waterproof sub-connector connection between the two spaces to allow for the cylinders to be removed from Arctos easily. Each cylinder will have two separate o-rings between the batteries and the hatch to ensure a watertight seal.

This project is in between the planning and prototyping phase, and will be continued to develop as CAD models and mounting solutions are currently being worked out to be tested and verified.

UofA Open House

Checkout our day at the UofA's Open House where the University extended an invitation for ARVP to showcase and represent engineering project groups!



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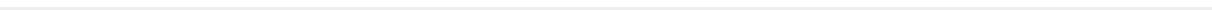
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Last week ARVP was invited to the UofA Open House where our execs showcased Arctos and the club to prospective university students and their families.

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Sponsor Highlight

We would like to thank Aramark this month and the hearty Tim's treats they have provided us this semester. Keeping our team fueled for the hard work sessions every week!





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