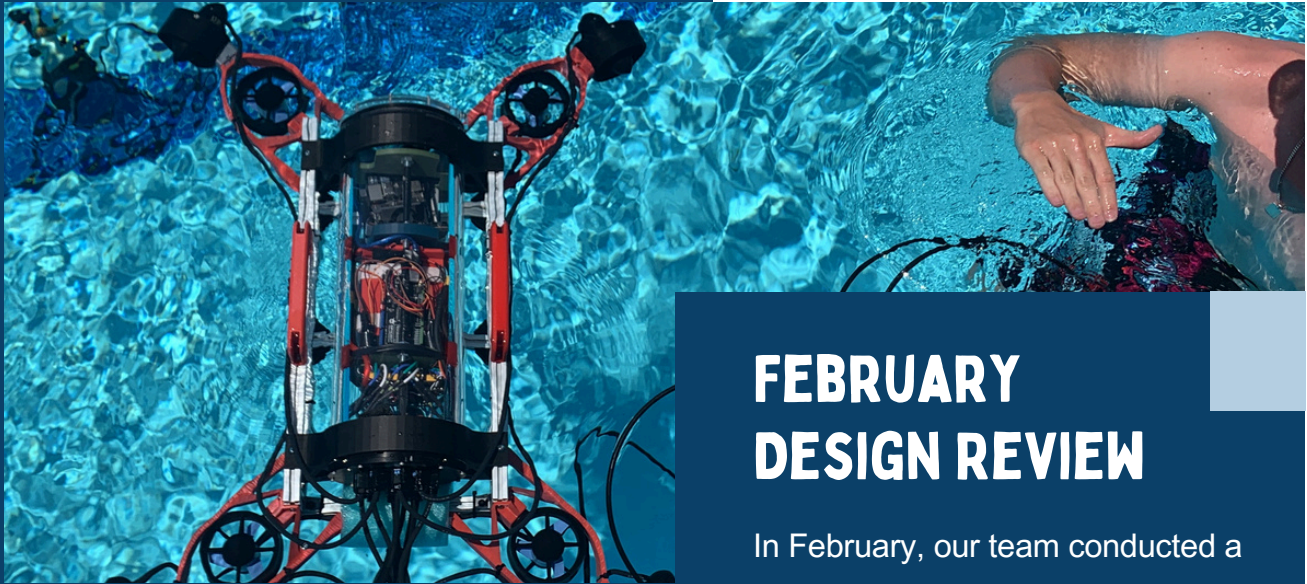


2024 YEAR END NEWSLETTER

OKMARINEROBOTICS.CA



JANUARY 6TH, 2025



FEBRUARY DESIGN REVIEW

In February, our team conducted a our first design review for our AUV, Cascade 1. This evaluation allowed us to refine our mechanical, electrical, and software systems, ensuring alignment with our competition objectives for the year.

PREPARING TO COMPETE

Early in the year, we concentrated on obtaining our first round of sponsors and supporters. Their contributions provided us with the funding, materials, and guidance necessary to begin transforming our designs into reality.

With sponsorships in place, we shifted our focus to ordering the critical parts required to build our AUV. Throughout the spring, our team worked tirelessly on construction, integrating innovative systems and refining every component.



FIRST DESIGN REVIEW

COMPETITION RESULTS

In our first year at the RoboSub competition, our team managed to place 15th against over 50 teams and ranked as the #3 Canadian team.

It was an incredible milestone for our club, proving the hard work that our members contributed and boosting team morale for further innovations.

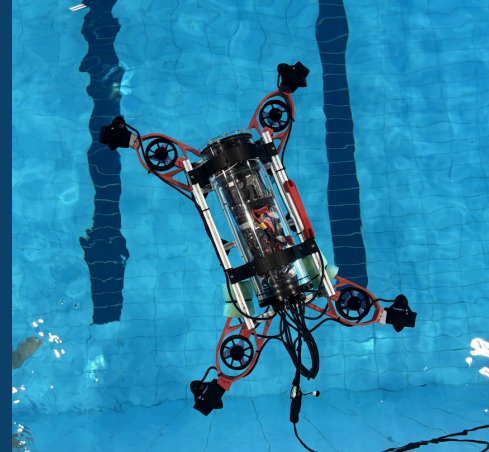


GROWING OUR TEAM

As the new semester began in the fall, we focused on growing our team and welcoming new students from a variety of disciplines. Recruitment events and hands-on workshops helped integrate new members into our sub-teams, ensuring everyone felt prepared to contribute to the redesign process for our next AUV.

Alongside growing our team, we took time to analyze our performance at the competition. By reviewing points awarded, mechanical designs, and software performance, we identified areas for improvement and began brainstorming innovative solutions. This process allowed for clear goals when re-designing components.

TESTING AT YMCA



Throughout the fall and winter, our team continued testing sessions at the YMCA pool in Kelowna. These sessions provided opportunities to further develop our machine learning and properly integrate our DVL with our on-board computer.



THANK YOU TO OUR SPONSORS

We are immensely grateful to all of our sponsors for supporting us on our journey this year!

We are grateful for the recent editions of sponsors for providing us with materials, discounts and services.

2025 GOALS

Our primary goals for 2025 is to design, build, and test the second iteration of our AUV. Learning from our first competition we are determined to create a vehicle that is even more innovative, reliable, and capable.

Our sights are set on advancing to the finals at the 2025 RoboSub competition. This year, we aim to push beyond our previous limits, mastering complex tasks like object detection, hydroponic pingers, and gripper arm.

At the core of our mission is the growth and development of our members. As our club continues to grow, we remain committed to teaching and developing students.

NEXT STEPS



As we enter into this new year, we will continue our ongoing testing as we implement new features and improvements to our software. We are currently in the process of ordering all of our 2025 AUV components