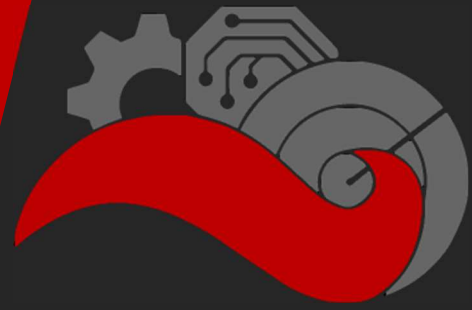


# The Ohio State University Underwater Robotics Team

## Sponsorship Guide 2022-2023



# About Us

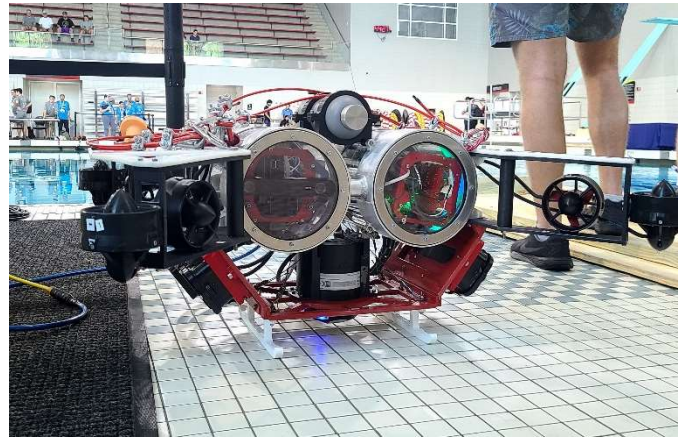
The OSU Underwater Robotics Team (UWRT) was founded in 2010 and specializes in the design, manufacture, and operation of underwater vehicles. Our early work focused on remotely operated vehicles (ROVs), but in 2015 we switched gears towards autonomous underwater vehicles (AUVs) for their wider range of applications and to provide new insight on industry-wide challenges. Since 2015, we have been competing in the annual Association for Unmanned Vehicle Systems International (AUVSI) RoboSub competition. Our performance has improved year after year, and we aspire to extend our limits.

## RoboSub 2022

After three years of virtual competition, RoboSub 2022 was hosted at the University of Maryland. We competed against nearly 39 other teams from 11 different countries. Overall, we placed 10<sup>th</sup> in autonomy and 3<sup>rd</sup> place in design documentation! In addition, we received the team superlative "most likely to lend a hand" and gained special recognition for pioneering the data sharing effort. We couldn't have done this without all of our team members, sponsors, and support from The Ohio State University's Electrical and Computer Engineering Department!

## Moving Forward

The Underwater Robotics Team has always strived to be the best. As an organization, the focus is always on educating our members. To help this goal, the team has started an initiative to partner with companies and research organizations to provide them with talented members for internship programs. Recruiting can be tough and expensive. The team can help alleviate some of the headache of that process. Much of the initial onboarding process of most companies is encompassed within the onboarding process of the team. This allows us to customize the curriculum for partners to help our team members be better fits for them.



## How Can You Help?

Our success would not be possible without our sponsors that see value in giving back. Your product and financial donations are what enrich our educational and practical experiences for life-long learning that will help us become engineering professionals and leaders of society.

# Team Organization

Our multidisciplinary team is divided into four sub-teams focusing on different areas: Mechanical, Software, Navionics, and Business & Outreach. Our team is composed of various engineering disciplines, undergraduate and graduate students, and students of diverse cultural backgrounds.



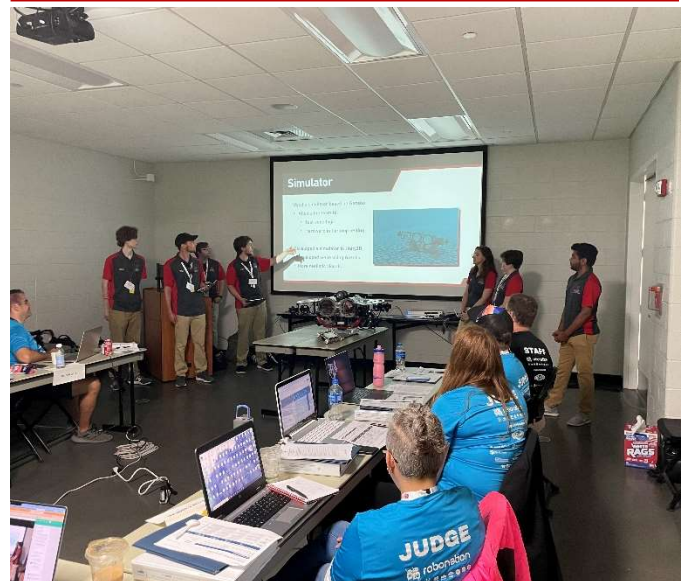
Mechanical



Software



Navionics



Business & Outreach

# Competition

We will be competing for the seventh time in the AUVSI RoboSub competition in August 2023. Our AUV will navigate an underwater obstacle course to perform various tasks ranging from object identification to shooting torpedoes to picking up objects.



The image above is Transdec. The location at which the AUVSI RoboSub competition is held.



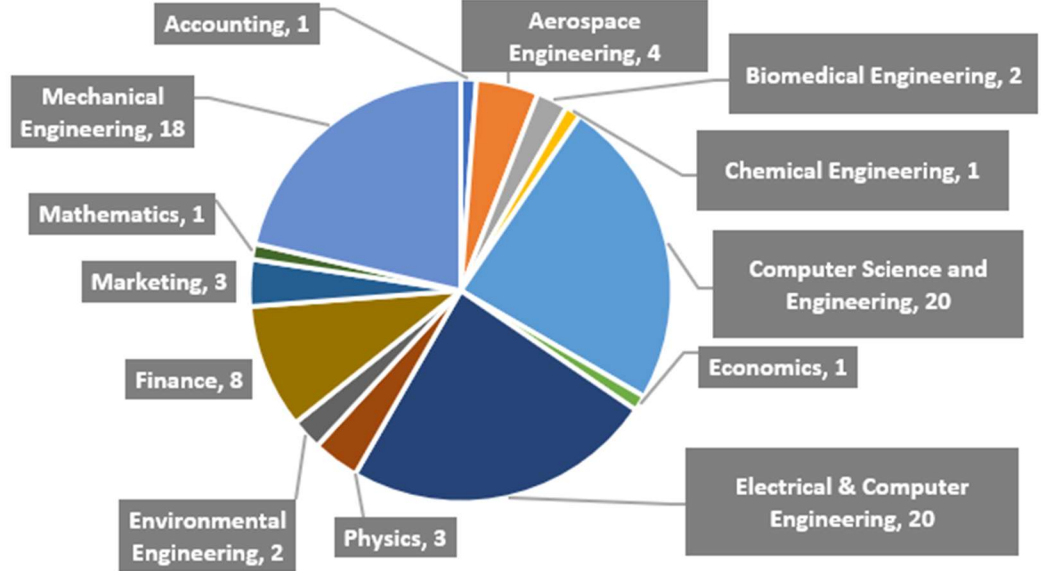
The image above is Tempest. The Competition robotic platform that the team just started using in August 2022.

# Diversity

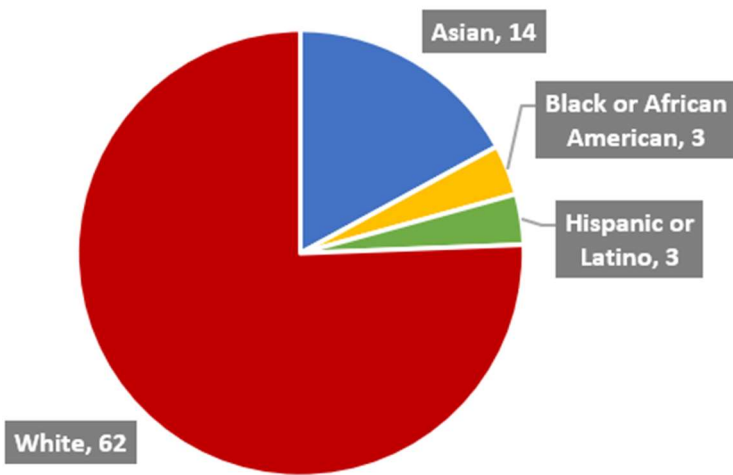
80

Total  
Active  
Members

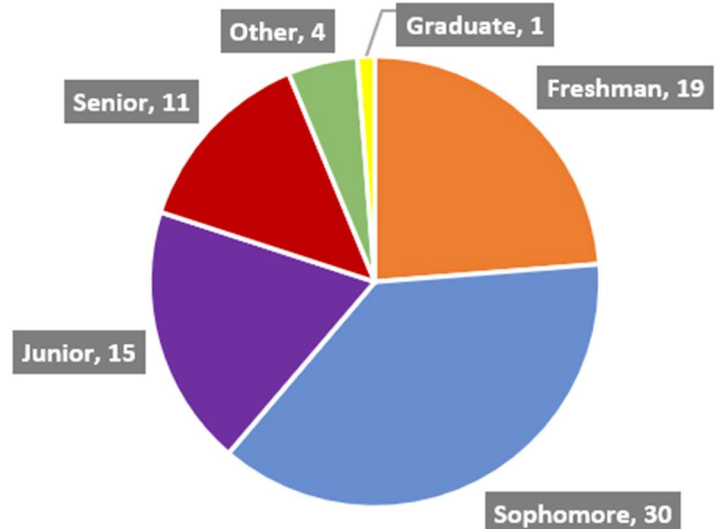
Breakdown of Majors



Diversity Statistics

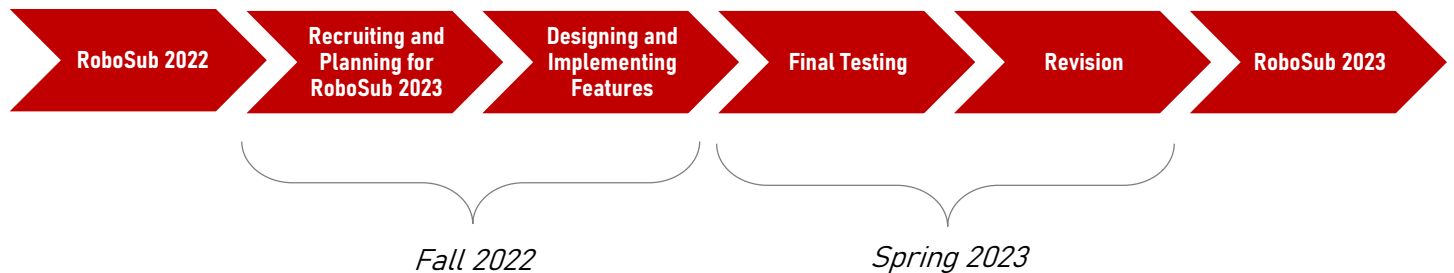


Year in School



# Budget & Timeline

Below is an overview of our timeline for the 2022-2023 school year. This year, we are focused on tweaking designs and eliminated technical debt for our current project: Tempest. The year will wrap up with final testing and preparations for RoboSub 2023.



An outline of our projected expenses for the 2022-2023 school year are detailed below by subteam. On the next page, there is a breakdown of our budget in graphical form.

	Project/Part	Cost
Electrical	Mark 2 Board Orders	\$550.00
	Mark 2 Parts	\$760.00
	Mark 2 Tools	\$100.00
	Subconnectors	\$750.00
	Mark 1.5 Board Orders	\$50.00
	Parts and Tools	\$650.00
Mechanical	Chassis Redesign	\$800.00
	Smart Battery Housing	\$1,500.00
	Customer 3D Printer	\$1,250.00
	New Task: Torpedos	\$200.00
	New Task: Claw	\$200.00
	New Task: Marker Dropper	\$100.00
	New Electronics Cages	\$50.00
	Parts and Tools	\$300.00
STEMBot	STEMBot Workshop	\$1,000.00
Software	Safety and Communication	\$500.00
General	Pool Tests	\$1,440.00
	Marketing	\$150.00
	Competition	\$8,500.00
	Member Engagement Event	\$700.00
	Workshop Improvements	\$500.00

# Budget & Timeline, cont.

2022-2023 Projected Budget



# Partner With Us

Aside from building robots, improving relations with our sponsors is a top priority. We can be your connection, or additional gateway, to Ohio State. By partnering with us, you will have access to our talented team members and people who attend our events. You will also be part of a greater network of companies that sponsor AUVSI teams, adding value to our educational experiences and to the development of autonomous vehicles.

In addition to monetary sponsorships, UWRT also partners with companies for non-monetary sponsorships as well. Non-monetary sponsorships can include a company donating parts to the teams or offering a discount code for their company. These types of sponsorships will receive the same benefits as monetary sponsorships with the category of the non-monetary sponsorships being based on the value that is given by the company.

Below is a breakdown of tiers of sponsorships, and the additional benefits for each level.

Sponsorship Categories	Bronze \$1000+	Silver \$2500+	Gold \$5000+	Buckeye \$10000 x 2+ years	Carmen \$25000 x 4+ Years
Logo on Team Shirt and Vehicle and Website	✓	✓	✓	✓	✓
Team Member Resume Book	✓	✓	✓	✓	✓
Access to Technically proficient Team Members for interview	✓	✓	✓	✓	✓
Tri-Annual Newsletter		✓	✓	✓	✓
Opportunity to host outreach and workshops through the team			✓	✓	✓
Recognized as a lead sponsor for OSU at RoboSub				✓	✓
Opportunity to interface with the team to beta test products					✓
Logo Displayed in Student Projects building					✓



# Thank you to our Current Sponsors

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THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

**LORD** SENSING



• **A P T I V** •



**VERSA**LOGIC  
CORPORATION



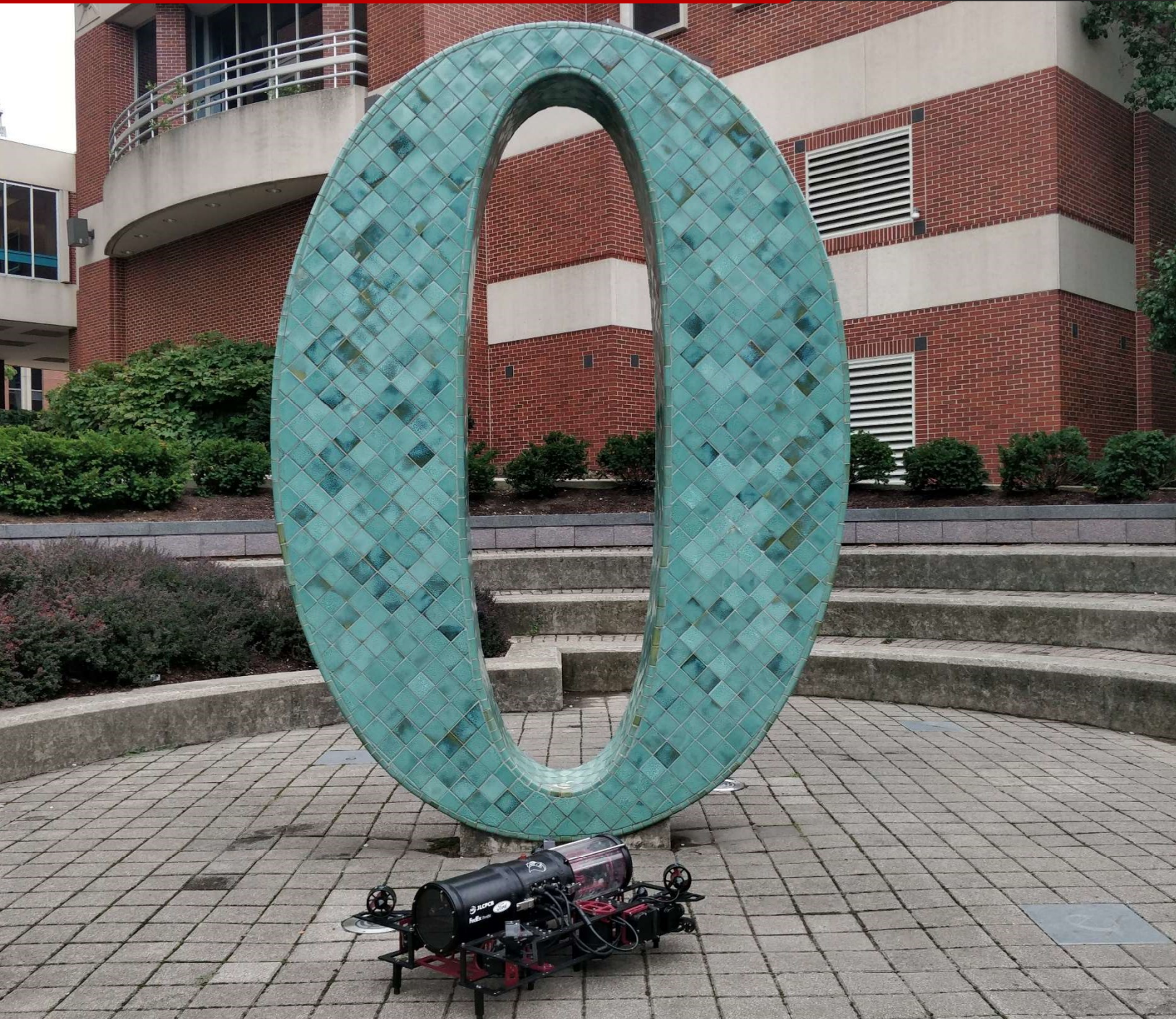
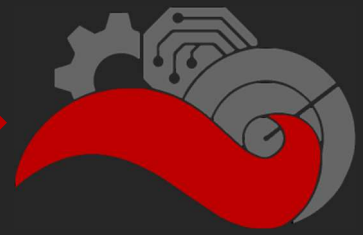
**EATON**

*Powering Business Worldwide*



**DIAMOND**  
S Y S T E M S

# Contact us and set up a meeting!



[osu.uwrt@gmail.com](mailto:osu.uwrt@gmail.com)



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