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 2018

Throughout the 2017-18 season, our team held the motto “make it work, then make it better.” From our own talent, dedication, and hard-work ethic, we made a fully functioning vehicle with which we: developed a custom electrical system, innovated a new chassis design, and completed our software-stack. In August 2018, we finished strong by placing 9th out of 47 teams, along with placing 4th in static judging for our technical merit and winning the Best Presenter Award. Watching our vehicle autonomously complete several tasks was a memorable experience that propels us forward.

Moving Forward

While our accomplishments in our third RoboSub competition are remarkable, we are setting the bar higher than before to enhance our system and place as a finalist. Our main goals for RoboSub 2019 include: an improved electrical system, an adaptable chassis, and increased autonomy from a better navigation system and advanced control algorithms.

How Can You Help?

Our success would not be possible without our sponsors that see value in giving back. Your 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, Electrical, and Business & Outreach. Our team is composed of various engineering disciplines, undergraduate and graduate students, and students of diverse cultural backgrounds.
Competition

We will be competing for the fourth time in the AUVSI RoboSub competition in August 2019, held annually in San Diego, California. Our AUV will navigate an underwater obstacle course to perform various tasks ranging from object identification to shooting torpedoes to picking up objects.
Budget & Timeline

Below is an overview of our timeline for the 2018-2019 school year. Immediately after the competition and throughout Fall semester, we focus on recruiting and training new members while starting design projects to reach our season’s goals. Spring semester is dedicated towards implementing the new designs via updating code, assembling new circuitry, and fabricating components. Pool tests are usually performed in Spring semester to ensure smooth integration of the new features with the rest of the system. The year will wrap up with final testing and preparations for RoboSub 2019.

A brief outline of our projected expenses for the 2018-2019 school year are detailed below. A more in-depth report describing the projects and costs within each sub-team is available upon request.
Building relations with our sponsors is a top priority, aside from just building awesome robots. We would like to 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.

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

<table>
<thead>
<tr>
<th>Sponsorship Categories</th>
<th>Gold $2500+</th>
<th>Silver $1000+</th>
<th>Bronze $500+</th>
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<tr>
<td>Logo on Team Shirt and Vehicle</td>
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<td></td>
<td></td>
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<tr>
<td>Team Member Resume Book</td>
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<td>Logo on Team Website</td>
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<tr>
<td>Tri-Annual Newsletter</td>
<td>✓</td>
<td>✓</td>
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**Team Member Resume Book:**
Exclusive access to the resumes/CVs of all the team members.

**Logo on Team Shirt and Vehicle:**
We’ll put your logo on the back of our team T-shirts and vehicle.

**Logo/Name on Team Website:**
Have your company name or logo proudly displayed on our Sponsors page.

**Tri-Annual Newsletter:**
Receive tri-annual updates from the team.
Thank you to our Current Sponsors

The Ohio State University
College of Engineering

Battelle
It can be done™

FedEx Freight

Diamond Systems

B&G Tool Company

Delphi

Shell