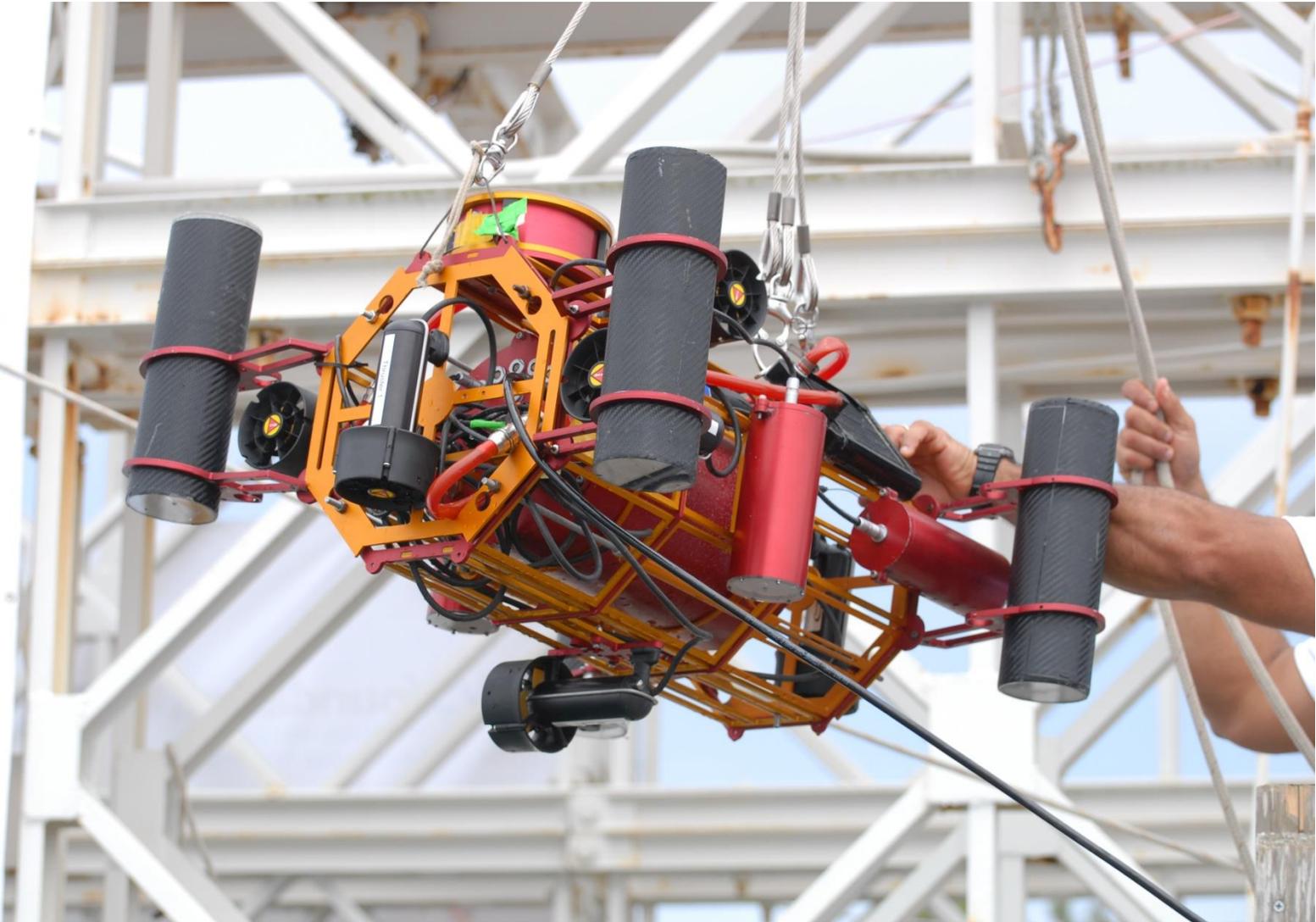


USC AUV



Autonomous Underwater Vehicle Team
University of Southern California
Viterbi School of Engineering

Sponsorship Packet
2015-2016

About: The Competition

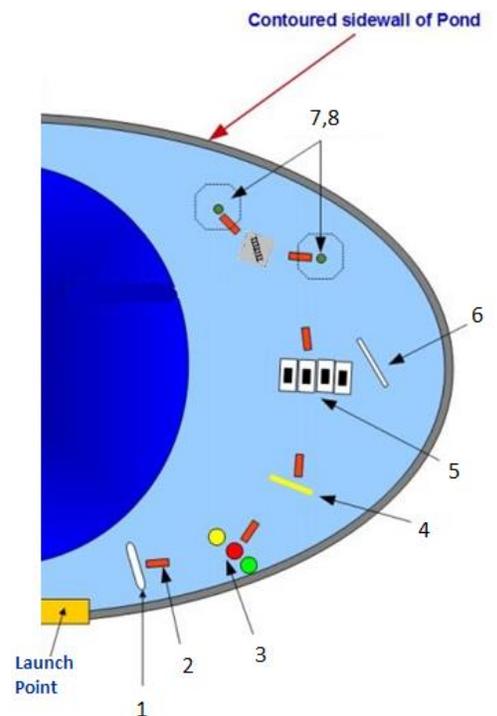
Every year the Association for Unmanned Vehicle Systems International (AUVSI) and the Office of Naval Research (ONR) organize the International RoboSub Competition. The competition challenges teams to design and build robotic submarines capable of navigating through and performing predefined tasks in a pool completely autonomously. The goal of this competition is to challenge students with multi-system engineering tasks and to foster relationships between engineering students and companies developing autonomous vehicle technologies. The competition enables and encourages innovation in students and professionals alike.

The teams are evaluated on both the technical performance of the submarine throughout a variety of challenges and professionalism. Competition judges score the team on the deliverables listed below. To the right is a course map from the 2015 competition, which corresponds to the Performance tasks.

Professionalism

Performance

Website	Weight
Journal Paper	Passing through Qualifying Gate (1)
Craftsmanship	Following Competition Course (2)
Team Uniform	Buoy Detection & Interaction (3)
Team Video	Passing through Gate 2, includes "style points" (4)
	Drop Markers (5)
	Fire Torpedoes (6)
	Locating Sonar Signal (7)
	Capturing, Surfacing with, and Releasing an Object (8)
	Time to Course Completion



In order to accomplish all the tasks on this list, the submarine must house a variety of different subsystems. In addition to completing these subsystems, team members must also coordinate with one another to effectively integrate them together. Then they must be able to pitch their designs in a way that is both technically sound and appealing from a marketing standpoint to be included in our journal, video, and presentation to judges. The skill sets developed to accomplish these tasks elevate students to be among the most highly pursued engineers and roboticists upon graduation.

About: Our Team



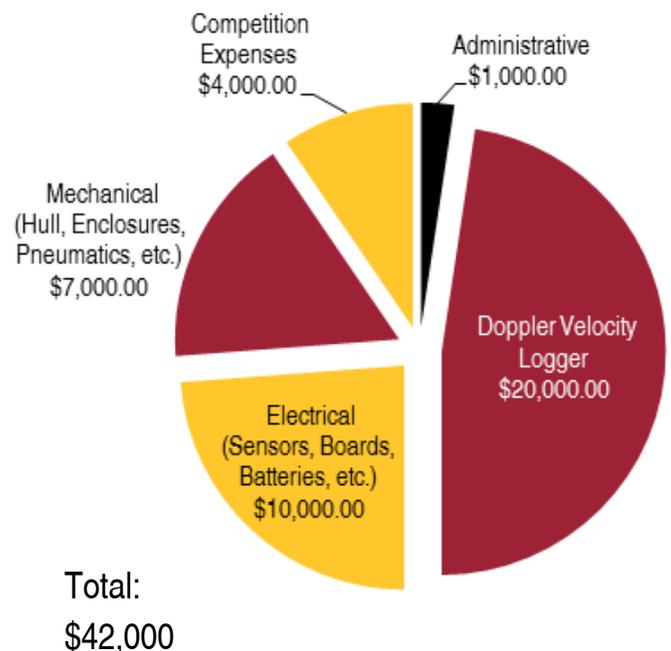
The AUV team was founded at USC in 2003, and recently placed as well as 5th in “static” judging at the Robosub competition, based on our score for professionalism. However, after a catastrophic failure at the 2014 competition and with intentions to build a more competitive submarine, the team restructured itself. As a result, the 2014-2015 academic year was spent redesigning the submarine, and this year the submarine is undergoing rigorous testing to allow those designs to be refined and integrated together. At our current rate of tests and improvements, we will be well prepared to compete this July.

We have also been focusing on growing our membership and creating a community. Our team this year boasts growth to about 25 participating members, up from the 10-15 we had last year. We are a diverse group of students, ranging from freshman to graduate students primarily working towards degrees in Computer Science, Electrical Engineering, and Mechanical Engineering, but there are also some studying the fields of International Relations, Law, and Business. To complete the challenges of the Robosub competition USC AUV distributes these talents among three sub-teams: Software, Electrical, and Mechanical.

We Need Your Support!

In order to finance its operations USC AUV relies heavily on industry partners for support. This support helps the team maintain the resources necessary to provide an excellent educational experience for its members and allows the team the opportunity to grow and improve. A projected budget for the year is presented here.

The USC AUV team cultivates leadership, teamwork, responsibility, and technical skills in a group of engineers that will be responsible for the future technologies of the world, especially in the realm of robotics, submersibles, and autonomous systems. Sponsoring the intellectual development of these dedicated students would be an investment in the abilities of a group of tomorrow’s greatest engineers.



Levels of Sponsorship

Trojan (\$5001 and above)

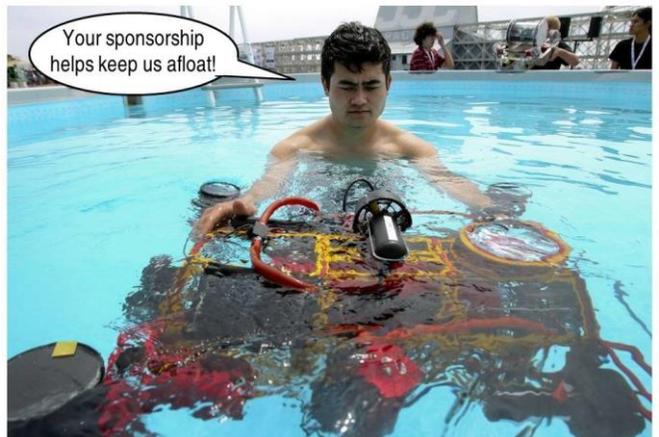
- Invitation to tour our workplaces and speaker presentation opportunity
- Open invitation to weekly meetings
- Company logo on all pages of website
- Company logo sticker on submarine
- All “Gold” level sponsorship benefits

Gold (\$1001-\$5000)

- Access to members’ resume book
- Invitation to semi-annual design reviews
- All “Cardinal” level sponsorship benefits

Cardinal (up to \$1000)

- Company logo on sponsorship page of website, as well as a post to Instagram and Twitter
- Company logo included on team apparel



Thank You.

USC AUV thanks you for your consideration. We hope this marks the beginning of a new partnership between our team and your company. Your support is what allows us to continue operating as a serious Robosub competitor and to improve year after year. If you have any questions please reach out to us at uscauv@gmail.com.



