

Cyclone RoboSub Community & Outreach Efforts:

Over the past year, Cyclone RoboSub has engaged in a series of community outreach events at UC Davis. Outreach gives us the opportunity to connect with new students and share the work our team is doing with the wider community. This year our team participated in two campus club fairs, where we recruited and educated the student body on our efforts to provide accessible, hands-on robotics experiences. For our school's celebration of Engineer's Week, Cyclone RoboSub hosted an event for students to meet one another and play games while enjoying team-provided snacks. In the Spring, we had a special opportunity to present our work to four groups of visiting high school juniors. For each group we showcased how our vehicle works and explained the importance of taking initiative by seeking out a community that aligns with your goals. After the event, we received over twenty thank you messages from the students, specifically calling out how much they were inspired by the project and appreciated our insights on the value of team-based engineering experience!

A major component of our team's mission is contributing to environmental and marine research, which has inspired its own subteam. This year, we've worked with the management of our local arboretum by deploying our vehicle and collecting pH, DO, and temperature profiles allowing them to quantify the effects of a recent restoration project. This spring, we collaborated with the UC Davis Tahoe Environmental Research Center by joining the field team aboard their research vessel and using Manatee to image nearshore periphyton. The data we collected will be used in combination with aerial imagery and diver recordings to quantify growth within the region. By engaging with field researchers, we create opportunities for our members to see the direct applications of their efforts and design for real world applications outside of competition. Deployments like these also benefit our partners and provide them with data and insights which would otherwise be inaccessible!



Figure 1: Fall Engineering Club Fair



Figure 2: Team Presentation



Figure 3: UC Davis Arboretum Deployment



Figure 4: Lake Tahoe Deployment