

## ROBOSUB 2025

### North Carolina State University AquaPack Robotics

#### Community & Outreach Description

Our team, AquaPack Robotics, prioritizes sharing our passion for robotics with our community and providing our members with unique networking opportunities to prepare them for their careers. Engaging with the next generation of robotics enthusiasts and engineers is a mission shared by all team members and guided by our leadership team.

At the university level, our members volunteer at semesterly recruitment events such as the Engineering and University Open Houses and the Engineering New Student College Connections event. At these events, we display the projects our team is currently working on. While recruitment is a goal, we are equally focused on educating students about robotics and highlighting the opportunities our team offers to all students—both engineering and non-engineering majors. AquaPack has also been featured at events such as the NC State Sustainability Fair, POP Back at the Oval, and Packapalooza, helping raise awareness about advancements and opportunities in robotics. At the NC State ECE Bits and Bytes Dinner, we spoke with ECE students about the various real-world applications of underwater robotics for electrical and computer engineers.

Our team is composed of over 90 students spanning twelve different areas of study. Our leadership team works to provide members with professional development opportunities and encourage networking with students from other organizations and schools. This year, AquaPack Robotics hosted two networking events with a fellow NC State engineering organization, SolarPack Robotics. Members from both teams connected and learned from one another to strengthen their respective groups. We also held a resume workshop with engineers and hiring managers from Analog Devices Inc. to support engineering students seeking internships. Additionally, we organized an informational session for members interested in joining NC State research groups, hosted by a lead PI in the electrical engineering department. Finally, we welcomed a group of students from Nagoya University in Japan to our lab for a networking event and had the opportunity to support a PhD student's research project studying teamwork and leadership dynamics in engineering organizations.

AquaPack also seeks to inspire the next generation by partnering with organizations to share the excitement of robotics with local elementary and middle schoolers. We've volunteered and tabled at events like the FLL Bull City Scrimmage, where our members helped with judging, scorekeeping, and showcasing our robot to attendees. We co-hosted students from Reedy Creek Middle School for a "Lunch and Learn," where we introduced them to the world of underwater robotics and gave a tour of our lab to provide insight into how a college robotics team operates. Finally, we partnered with NC State Live for the HUANG-YI & KUKA Robotics Showcase, where children experienced a robotic dance performance and then explored community robotics opportunities after the show.

AquaPack Robotics takes pride in staying engaged with our local community through professional development events, university-wide involvement, and K-12 outreach. Community engagement is central to our identity and will remain a key focus in the years ahead.