

ROBOSUB 2025

Carnegie Mellon University
TartanAUV

Community & Outreach Description

TartanAUV was able to support youth engagement in robotics by hosting two events with FIRST LEGO League teams. We connected virtually via Zoom with the team “Brick and Sharky” from New Jersey to share a presentation of the work we do with RoboSub, as well as our experiences as engineers. During the session, we also listened to the FLL team’s presentation and we provided constructive feedback and offered guidance on pursuing a future in robotics.

On campus, we welcomed an all-girls FLL team “Starfish” from the Pittsburgh area. During their visit, we were able to demo our AUV, show videos of our testing process, and tour our workspace. Starfish gave a presentation on their LEGO robots, and we offered encouragement, highlighted their strengths, and suggested ideas for improvement. In addition to engaging with the students, we spoke to their parents and families about ways to support their children’s interest in engineering. We made sure that the women on our team had dedicated time to connect with the girls, offering mentorship as they navigate a traditionally male-dominated field.

Additionally, a group of our team members volunteered at the FIRST Robotics Competition Greater Pittsburgh Regional. Here, we set up the game field and assembled game elements used in the competition.

This past spring, we participated in a Carnegie Mellon University outreach event during Carnival, a 4-day event where classes are paused and alumni return to visit. We are not a formal research lab, but were still granted the opportunity to host a table at the Robotics Institute Open House. Here, we were able to network with students, alumni, and faculty, educate the community about the RoboSub competition, and show our newly built AUV.