

AVBotz RoboSub 2026 Community And Outreach

Amador Valley High School Robotics (AVBotz)

I. OUTREACH ACTIVITIES

AVBotz, for the past 27 years, has upheld the core tenet of encouraging and facilitating innovation and technical growth in students. We place a strong emphasis on giving opportunities to students by offering new experiences through volunteering, community service, outreach events, and STEM education.

A. ACE Coding/ACE Code Day

AVBotz is grateful for the opportunity to give back to the community through ACE Coding and ACE Code Day. We promote coding and engineering at younger ages by leading weekly after-school lessons at Harvest Park, Hart, and Pleasanton Middle School in partnership with ACE Coding. Throughout each school year, our members teach Java and Python to more than 100 middle school students through a 20-week curriculum.

In addition to weekly lessons, AVBotz members also lead workshops at ACE Code Day, a six-hour event where students are introduced to topics such as CAD using OnShape, electrical engineering, and computer vision with OpenCV. These events give younger students hands-on exposure to engineering concepts and encourage them to explore STEM pathways.

The impact of ACE Coding and ACE Code Day has been extremely visible, with many of our own members first becoming interested in coding and engineering through these outreach opportunities. AVBotz is proud to help inspire the next generation of innovators within our community.

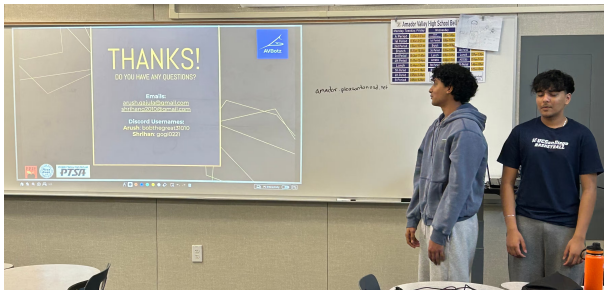


Fig. 1: AVBotz members teaching students during ACE Code Day

B. Donlon Elementary Engineering Night

Donlon Elementary's annual Engineering Night has been an incredible opportunity to inspire the next generation. AVBotz has attended Engineering Night for the past four years and has showcased Marlin V3 to students, parents, and community members. We emphasize the spirit of innovation, teamwork, and future growth through hands-on demonstrations and interaction with younger students.

We believe that early exposure to robotics and engineering is instrumental in expanding opportunities for children in the community. Donlon Elementary Engineering Night acts as a bridge for young students to develop their curiosity, technical skills, and confidence to become innovators themselves.



Fig. 2: Donlon Elementary Engineering Night

C. Club Fair

AVBotz is dedicated to offering opportunities to other high school students as well, especially because high school is a critical period for learning and personal growth. One major way AVBotz accomplishes this is through school club fairs where members explain the projects, engineering disciplines, and opportunities available within the club.

AVBotz attends all three club fairs throughout the school year and makes a consistent effort to introduce as many students as possible to robotics and engineering. Attendance at club fairs also allows AVBotz members to contribute to school spirit, collaborate with other student organizations, and inspire others to pursue STEM-related activities.

D. Livermore Innovation Fair

AVBotz is devoted to spreading knowledge, collaborating with local organizations, and engaging with the community through STEM outreach. At the Livermore Innovation Fair, we showcase RoboSub and explain the design and inner workings of our autonomous underwater vehicle, Marlin V3, to students, families, and visitors from across the area.

What makes the Livermore Innovation Fair especially meaningful is its focus on innovation, education, and community collaboration. The event brings together many unique organizations that contribute to society through science, engineering, and technology. In alignment with the spirit of the event, AVBotz highlights the potential of autonomous vehicles and demonstrates how robotics can be used to solve real-world problems.

The fair also gives our team valuable opportunities to exchange ideas with other innovators and gain insights that help us improve Marlin V3 and refine our engineering processes. AVBotz is honored to participate alongside dozens of interactive scientific displays that inspire curiosity and creativity within the community.



Fig. 3: The Livermore Innovation Fair