

Community & Outreach: Project Nebula RoboSub Team

Project Nebula is deeply committed to strengthening and engaging our local community through STEM outreach and education. As a student-founded and student-led RoboSub team, we actively work to inspire the next generation of engineers, programmers, and innovators across the Dallas–Fort Worth (DFW) area.

One of our primary outreach efforts involves working directly with middle school students. Our team organizes and delivers hands-on presentations where we introduce students to autonomous underwater vehicles (AUVs), explain the fundamentals of robotics, and demonstrate how our submarine operates. These sessions are designed to be interactive and engaging, allowing students to see real-world applications of concepts they encounter in the classroom.

In addition to demonstrations, we provide mentorship and tutoring to younger students interested in STEM, below are images of us speaking at the Arlington Classics Academy, inspiring younger students to learn more about underwater vehicles. Team members volunteer their time to help students understand topics such as basic programming, electronics, and mechanical design. By breaking down complex ideas into approachable lessons, we aim to make engineering both accessible and exciting.

We also share our competition experiences with students, offering insight into events such as RoboSub and MATE ROV. Through these discussions, we highlight teamwork, problem-solving, and perseverance, showing students what it takes to compete at a high level. This not only builds awareness of STEM opportunities but also motivates students to pursue their own projects and competitions.

Beyond direct student engagement, Project Nebula promotes STEM within the broader community by showcasing our work online and encouraging collaboration. Our outreach efforts reflect our belief that knowledge should be shared and that inspiring others is just as important as technical achievement.

Through education, mentorship, and community involvement, Project Nebula continues to foster curiosity, confidence, and passion for STEM in the next generation.

