

Team Inspiration 2025 Outreach

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As part of our motto, *To Learn, To Share, To Innovate, and To Inspire*, Team Inspiration strives to expose the next generation to Science, Technology, Engineering and Math (STEM). We have found that some of the best learning comes through teaching.

During the summer, we conduct more intensive workshops in partnership with the University of San Diego (USD) STEAM Academy (Fig. 1), UrbanLife Ministries (Fig. 2), Girls Inc, and Manna's Martial Arts (Fig. 3), extending our reach to underrepresented and underprivileged students. Within the United States (US) communities, we actively mentor FIRST robotics teams, teach robotics camps, showcase our robots at a variety of local events (including the Miramar Air Show (Fig. 4) and the San Diego SeaPerch competition (Fig. 6)), and reach out to youngsters at major San Diego STEM fairs.



Fig. 1. Team Inspiration outreach at USD STEAM Academy



Fig. 2. Team Inspiration outreach with the UrbanLife Ministries



Fig. 3. Team Inspiration outreach at Manna's Martial Arts

At the Miramar Air Show, we displayed Onyx, our Autonomous Underwater Vehicle (AUVs) to over 4,000 people (Fig. 4).



Fig 4. Team Inspiration outreach at the Girl Scouts Day Camp (left) and Miramar Air Show (right), showcasing our AUV

We partnered with FRC Team Spyder, hosting a Girl Scout Day Camp where girls learn about robotics to earn their merit badge. Additionally, we went to the Navy Gold Coast conference to connect with industry professionals and encourage them to become robotics mentors.

Beyond continental US, we extend our knowledge to the global community. Actively coaching teams in Benin, Ecuador, Eswatini, Haiti, Paraguay, and Togo, our team members connect with coaches from abroad and work to create a transformative robotics experience for students. This year, our team members reached a wider audience, and we connected with the US Embassy to teach Benin mentors about passing down information about hosting and creating a successful outreach (Fig. 5).

Fig. 5. Team Inspiration, FRC Team Spyder, and the US Embassy teaching Benin mentors



Within the last year, our team members have surpassed a total of 300 hours spent on outreach and volunteering. With a special focus on students who have fewer resources and/or lack access to high-quality instruction and mentorship, we work to share our experiences, teach students about engineering fundamentals, and inspire students to further pursue education, especially in STEM.

We went to the San Diego SeaPerch Competition this April to showcase our

RobotX, RoboSub, RoboBoat, and Porpoise Robotics's MiniSub. During the judging break, we introduced our robots and put them on display for SeaPerch students to learn and interact with (Fig. 6).



Fig. 6. Team Inspiration outreach at the San Diego SeaPerch competition in 2025.

Our team has been able to establish a robotics internship program for San Diego Mesa College students (Fig 7)



Fig. 7. San Diego Mesa Impactship program

This internship allows the students to learn about autonomous vehicles on RobotX, RoboSub and Roboboat. The students gain hands-on experience in robotics. By concurrently enrolling in a

work experience course, student interns are empowered to work with purpose, guided by SMART goals. With this approach, we have successfully recruited seven active team members, who are all engaging in meaningful projects, developing professional skills, and contributing to impactful outcomes to prepare them for employment in the real world.