



# Team Inspiration

## September Newsletter 2023

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### RoboSub 2023



Our team is ecstatic about our performance in the 2023 RoboSub competition. We placed 7th overall out of 35 teams, including us, world wide. We received 2nd place in Website, 3rd place in Design Documentation, a Mentorship Special Award, and for the first time competed in the finals for the Autonomy Challenge.

Being back at Transdec we were able to reflect how far we have come from our first year of RoboSub in 2019 where our team comprised middle and high schoolers. Since then we have been able to leverage our competition experience to field two autonomous underwater vehicles and perform intersub communication.

We enjoyed being back in person at TRANSDEC for this competition and loved meeting all the other teams. Our fellow competitors have inspired us to keep working on our AUVs and our team has already started going through our mission logs to improve our system design.



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### FIRST Tech Challenge



The FTC team has begun the ideation phase for this year's FTC 2023-2024 season "Center Stage." The team began with a brainstorming session and initial prototyping has gotten underway for the different challenges involving launching a paper airplane "drone" and manipulating 3 inch hexagons "pixels" to place them within the scoring zones.

### FIRST Global



Team members are participating in video calls with students around the world from countries Togo, Benin, and Eswatini. We help clarify questions regarding robot design, programming, and presentation preparation. All in preparation for the "Hydrogen Horizons" competition hosted in Singapore from October 7-10.

This is our 6th year participating as a FIRST Global STEM ambassador



### VRX



The Team registered for the Virtual RobotX Competition gearing up for the 2024 RobotX in-person competition in Sarasota, Florida. The team completed the "hello world" phase 1 of the competition and continues to setup and develop autonomy maneuvers within the simulator.



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### RoboSub Get Together



The team hosted local San Diego RoboSub teams to celebrate the region's accomplishments within the past year. Thank you to SDSU Mechatronics, Helix High School, and Team Simplicity for attending. We look forward to strong regional collaboration for future competitions.

### Manna's Martial Arts



Thank you for Team Spyder 1622 for joining our outreach impacting young students from 5 to 10 years old. We took students through the design process using block programming and Lego robots to enable and rapid iteration. The lesson was concluded with a demonstration of Team Spyder's FRC robot.

### Navy Gold Coast



Our team participated in the 2023 Navy Gold Coast Annual Small Business Procurement Event to encourage industry support in STEM education by being sponsors or providing internship opportunities to develop next generation of engineers.



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### Fleet Science Center



Our team brought underwater and ground robots to the Fleet Science Center to showcase value and opportunities of robotics learning. The team discuss how robots can aid human by handling autonomous, manufacturing and/or danger tasks.

### SWENext



Team Inspiration's SWENext chapter, WE STEM, is looking for speakers. Our webinar series aims to showcase to students the potential of STEM, by introducing them to the industry and academia applications. Please reach out if you want to organize a session.

### Upcoming Events

- ★ Navy Fleet Week in November
- ★ UCSD Triton-AI collaboration
- ★ UCSD capstone proposals
- ★ RoboBoat competition
- ★ Team open house