



Teach. Build. Become.



Three High School and Collegiate Robotics Programs:



Naval Robotics Programs

Two Middle School and High School Programs:



SeaPerch

SeaPerch is an innovative underwater robotics program that equips teachers and students with the resources they need to build an underwater Remotely Operated Vehicle (ROV) in an in-school or out-of-school setting. Students build the ROV from a kit comprised of low-cost, easily accessible parts, following a curriculum that teaches basic engineering and science concepts with a marine engineering theme. Throughout the project, students will learn engineering concepts, problem solving, teamwork, and technical applications. Teams compete against one another in a mission that changes annually as well as an obstacle course, presentation, technical design report, and more.

SeaGlide

SeaGlide is an autonomous underwater glider that changes buoyancy and pitch to propel itself through rise and dive cycles. SeaGlide allows users to take their knowledge of autonomous systems to the next level while building a robot with real-world capabilities. Teams compete against one another in a pool competition as well as challenges related to building, programming, testing, and troubleshooting microcontroller circuits and computer code and a white paper and presentation.

RoboBoat, RoboSub, and RobotX

RoboBoat, RoboSub, and RobotX are naval robotics programs that challenge teams to develop autonomous boats, submersibles, and multi-platform vehicles respectively. Teams compete against one another in a challenge that changes annually.



Greater Philadelphia SeaPerch & SeaGlide Challenge (GPSSC)
<http://www.phillynavalstem.com/>

- Provides Training for Educators on Building & Programming SeaPerch & SeaGlide, Free Kits to get started, and Mentoring from Engineers & Scientists

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