

Naval Robotics Programs

Two Middle School and High School Programs:



Three Collegiate Robotics Programs:



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
- Challenge includes in-pool competitions, technical papers & presentations, & other technical challenges

Reach out to learn more about getting started with a naval robotics team today as a coach, mentor, judge, and more!

Sponsors



Ask Us

STEM inbox:

nswcpd_stem@navy.mil

Engage Us

STEM Chat Channel:

<https://chat.navsea.navy.mil/channel/nswcpdstem>

STEM Wiki:

<https://wiki.navsea.navy.mil/display/NSWCPDSTEM/>

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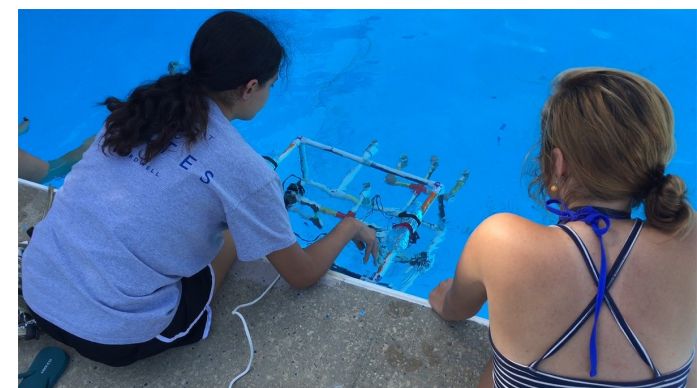
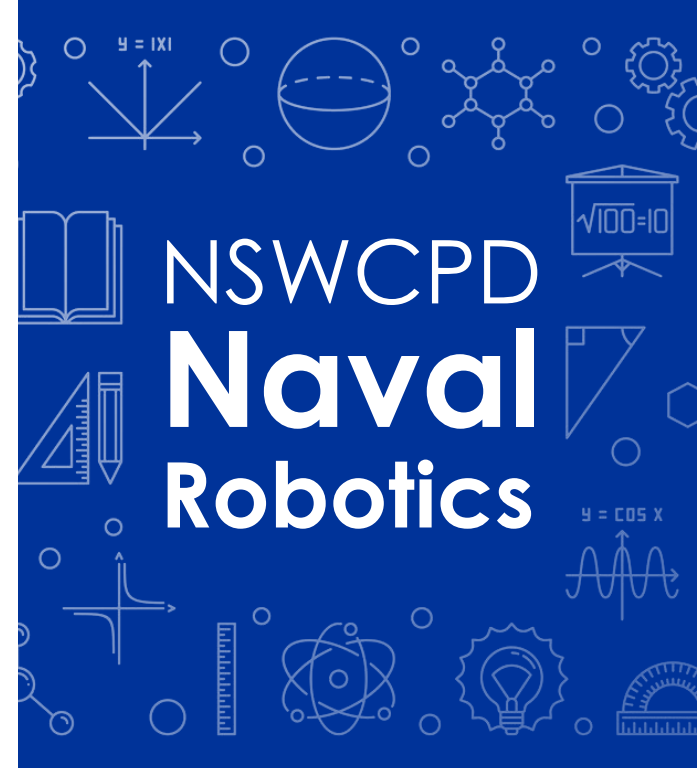
www.youtube.com/NavalSurfaceWarfareCenterPhiladelphiaDivison

For additional information please visit

<https://www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Philadelphia/>



"Powering Today's Fleet, Innovating Tomorrow's"

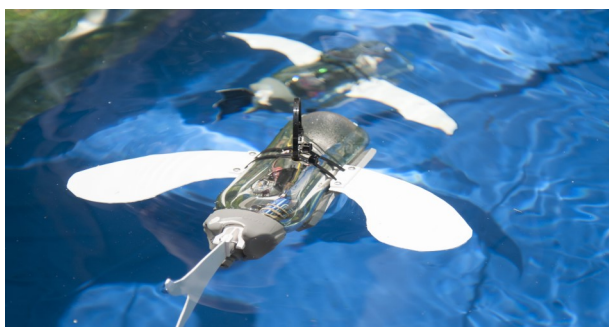
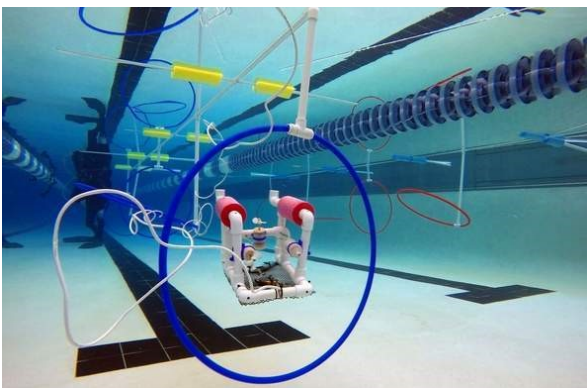


Teach. Build. Become.



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. The SeaPerch Program provides students with the opportunity to learn about robotics, engineering, science, and mathematics (STEM) while building an underwater ROV as part of a science and engineering technology curriculum. Throughout the project, students will learn engineering concepts, problem solving, teamwork, and technical applications.



SeaGlide

SeaGlide is a mini underwater glider that changes buoyancy and pitch. It has no propeller, but rather flies through the water using wing thrusts as it dives and rises. Designed for students, budding researchers and robotics fanatics, SeaGlide allows users to take their knowledge of autonomous systems to the next level while building a robot with real-world capabilities.



Regional Competitions



GPSSC

October: Teams Registration

November: Training

February: Technical Reports & White Papers Due

March: GPSSC Event

NSWCPD is interested in expanding partnerships to provide naval engineering mentorship and help establish teams in the Mid-Atlantic and Northeastern United States