



UPCOMING WORKSHOP

SeaGlide Hawaii Teacher Workshop

March 19-21 | 9:00am – 4:00pm HST

Iolani School | Sullivan Center

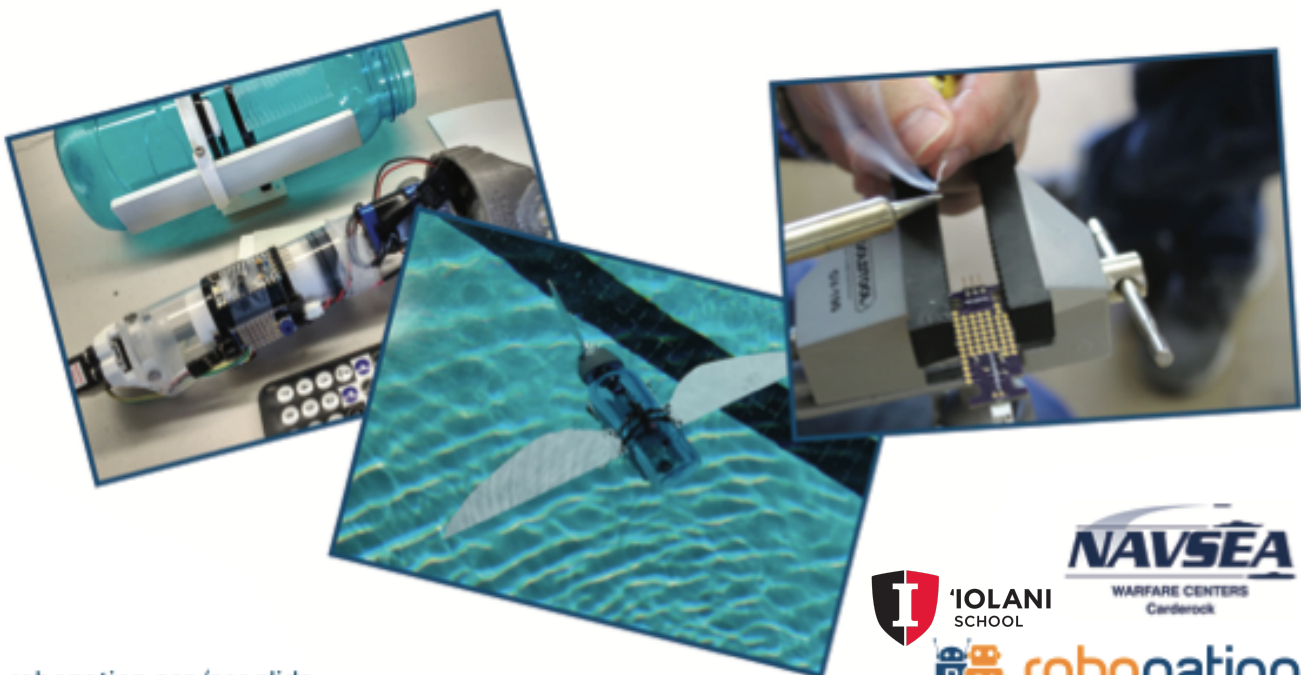
What is SeaGlide®?

SeaGlide® is a new educational autonomous underwater vehicle (AUV) powered by an Arduino microcontroller. Students can devise a challenge, design a solution and test their theories with this affordable kit. SeaGlide® is an open-source tool to educate the next generation about how autonomy can be used to improve their local environment and build skills in robotics.

Why You Should Attend

The SeaGlide® program was designed as a follow-on to the popular SeaPerch® remote operated vehicle. Workshop participants will start by building your own SeaGlide. You will learn some basic breadboard circuits and control them by programming an Arduino and by day three will be poolside testing your AUV and have the foundation you need to start your own program. SeaGlide is a multi-disciplinary program where math, engineering, marine science and conservation come together to inspire students to find innovative solutions through technology. Join us! Bring a colleague. And enhance STEM in your school!

RSVP to Janelle Curtis at jcurtis@robonation.org



robonation.org/seaglide



IOLANI
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563 Kamoku Street

Honolulu, Hawai'i 96826



Day 1: March 19

9:00am – 12:30pm

- Welcome & Introductions
- What is SeaGlide
- Intro to Arduino Programming
- Soldering Lesson

12:30 – 1:00

- LUNCH (*provided*)

1:00pm – 4:00pm

- Safety
- Build: Power supply
- Build: Buoyancy Engine
- Wings and Rudder: An intro to biomimicry





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Day 2: March 20

9:00am – 12:30pm

- Ok, SeaGlide is cool! But why?
- Build: Circuit Board
- Build: Arduino ProMini

12:30 – 1:00

- LUNCH (provided)

1:00pm – 4:00pm

- Bench test: Electronics & Buoyancy Engine
- Assemble: Buoyancy Engine Assembly and Bottle Prep
- Deeper dive into the wonderful world of autonomy





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Day 3: March 21

9:00am – 12:30pm

- Final Prep & Finishing touches
- Pool time! Ballasting and First Flight Test

12:30 – 1:00

- LUNCH (*provided*)

1:00pm – 2:30pm

- Pool time! More ballasting and fun with SeaGlide.

2:30pm - 4:00pm

- More than just a build. How to use SeaGlide as an integrated learning platform. Learn more about video, sensors and data collection.

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