



Underwater Remotely Operated Vehicles (UWROV) at the University of Washington

Seattle, WA, United States (2879mi / 4633km from competition)



UWROV is a returning team. We are comprised of undergraduate students ranging in year from freshmen (1) to graduating seniors (4).

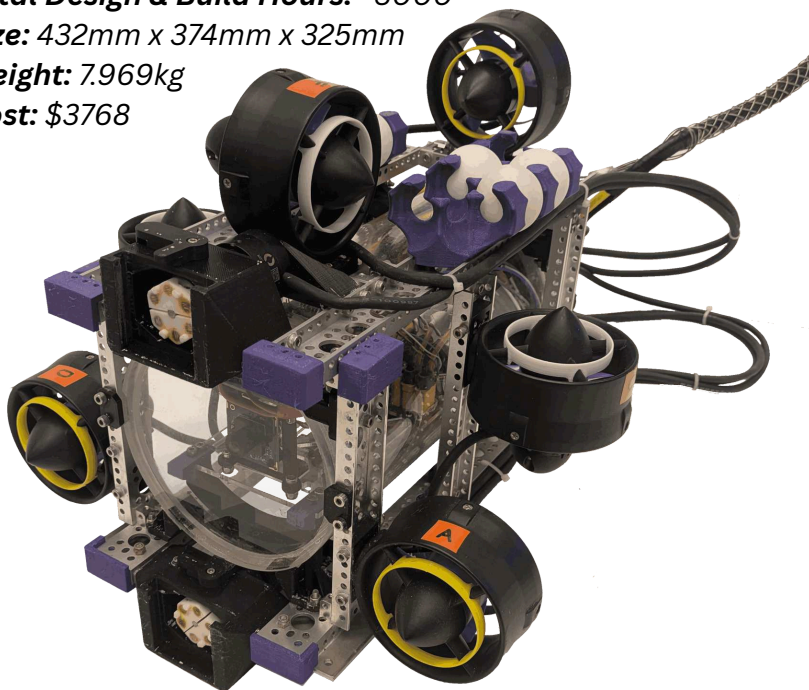
Boxfish 2.0

Total Design & Build Hours: ~3000

Size: 432mm x 374mm x 325mm

Weight: 7.969kg

Cost: \$3768



BOXFISH

Mentors: Rick Rupan, Alnis Smidchens

Members (name, year at UW, year in UWROV, position):

Third Row: Lucas Parekh (3, 2, Mechanical Lead), Imants Smidchens (3, 3, CTO), Quinn Pfeifer (2, 2, Software Lead), Sergei “Ziggy” Avetisyan (3, 3, Science Lead), Alex Weber (3, 2, Lab Organization), Tyler Sloan (4, 1, Electrical)

Second Row: Ben Fowlkes (2, 2, Safety Lead), Rowan Newell (3, 3, Co-CEO & Pilot), Aidan Lee (4, 2, Community Lead & Pilot), Marcus Kwek (1, 1, Manipulators), Chris Moon (1, 3, Member), Jordan Wu (3, 3, Electrical Lead), Sean Kim (1, 1, Member)

First Row: Eliana Koenig (2, 2, Member), Abirami Subramanian (1, 1, Structure), Andrea Carr (1, 1, Manipulators), Emily Ngo (3, 1, Electrical), Ellen Leier (2, 2, Business), Ethan Yang (3, 3, Software Lead)

Headshots: Sheamin Kim (3, 2, Co-CEO), Suzu Yoshikawa (2, 2, Business Lead), Ethan Yang (3, 3, Software Lead)

Not Pictured: Andrew Grieve (1, 1, Manipulators), Ayla Crowell (1, 1, Software), Branden Floyd (3, 1, pH Sampling), Daniel Matsui Smola (1, 1, Software), Ian Choy (1, 1, Static Manipulator), Insuh Paik (1, 1, Float), Jerry Chan (1, 1, Documentation), Kota Murakami (3, 3, Mechanical Lead), Luke Owen (3, 1, pH Sampling), Norah Duong (1, 1, Documentation), Victor Wong (1, 1, Software)

Special Features

- Lightweight, easily serviceable frame.
- Two modular manipulator mounts for interchangeable, task-specific dynamic and static manipulators.
- Modular, no-tool adjustable buoyancy.
- Input regulated propulsion.
- Six degrees of motion.

Safety Features:

- Software enforced safety check upon startup.
- IP2X rated thruster guards.
- TPU bumpers on aluminum edges.
- Pressure hold temperature regulation.
- Braided tether strain relief.
- Centralized emergency power stop/master power switch.