

UWROV

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

Seattle, WA, United States (3,138mi/5,049km from competition)

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



Special Features

- Fine control of manipulators with the CoreXY Gantry
- Reducing resurfacing with tool switching system.
- Buoyancy Arms to easily regulate pitch.

Safety Features

- Software enforced safety check upon startup.
- IP2X rated thruster guards.
- TPU bumpers shielding sharp corners.
- Braided tether strain relief.
- Centralized emergency power stop/master power switch.
- Outer frame to protect users and environment.

Back row: Rohan R. (2, 1, Gantry), Oz R. (1, 1, Manipulators), Henry L. (3, 1, Custom Electronics), Sam G. (1, 1, Manipulators), Ian C. (2, 2, Manipulators), Emmett V.M. (1, 1, Gantry), Aadithya M. (1, 1, Custom Electronics), Imants S. (4, 4, CTO), Quinn P. (3, 3, Software Lead)

Third row: Ayla C. (2, 2, Electrical Lead), Fiona I. (1, 1, Control UI), Ethan Y. (4, 4, Software Lead), Victor W. (2, 2, Software), Melody D. (1, 1, Outreach), Andrew G. (2, 2, Manipulators), Aarav S. (1, 1, Propulsion), Jerry C. (2, 2, Manipulators), Marcus K. (2, 2, Mechanical Lead), Lawrence T. (1, 1, Manipulators and Float)

Second row: Krishna Maanasa R. (1, 1, Float), Zoia Z. (1, 1, Tether), Arnav J. (1, 1, Image Detection), Rowan N. (4, 4, CEO), Pavitr A. (3, 1, Trainee), Ellen L. (3, 3, CAO), Anuj J.T. (1, 1, Image Recognition), Chase C. (1, 1, Image Recognition), Luke W. (1, 1, Manipulators and Float), Logan B. (1, 1, Custom Electronics)

Front row: Rick R. (Mentor), Carissa W. (1, 1, Manipulators), Abirami S. (2, 2, Science Lead), Kelly K. (1, 1, Trainee), Gabby R. (1, 1, Image Detection), Lucy C. (1, 1, Manipulators), Dorah W. (1, 1, Custom Electronics), Rachel H. (3, 1, Image Detection), Suzu Y. (3, 3, Business Lead)

Not pictured: Ishan P. (1, 1, Image Detection), Wanhao Z. (2, 1, Trainee), Sannie W. (3, 1, Float), Addison T. (1, 1, Marketing), Srithan R. N. (1, 1, Trainee), Derek W. (3, 1, Trainee)

Conduit

Total Design & Build Hours: ~ 4,500

Size: 553 mm x 609 mm x 597 mm

Weight: 16 kg

Cost: \$3,910.60

