



Company Spec Sheet

WUROV Company Info

School Club: Institute of Electrical and Electronics Engineers

University: Wentworth Institute of Technology

Location: Boston, Massachusetts, USA

Returning Team: 7th Time MATE Competition Participants

Traveled: 1550 km



2025 – 2026

ROV Overall Specs

Length 0.687 m
Width 0.457 m
Height.....0.237 m
Weight..... 21.689kg
Total Cost\$3,314.49
Design & Build+4,000 hours
ROV Name.....Yellow-Crab 2.0



Team Members

Mechanical:

- Lulya Tesfamicael
- Ryan Staley

Control:

- Noah DeGrazia
- William Zhou
- Garrett Vieira
- Joleen Zhu

Business Ops:

- Matthew Zubricki

Float:

- Ben Oosting
- Omar Elhashash

Mentors:

- Ph.D Saurav Basnet
- Chris Thierauf
- Victor Lomba

Special Features



Foxglove UI

Intuitive user-interface attached to ROS2 architecture for pilot convenience



Custom Pneumatic Gripper

Swift manipulation of a variety of different mission props



Laser Measurement

Two class IIIa lasers are used in tandem with computer vision to estimate distances.

Safety Features



Strain Relief

Allow quick removal of ROV from water in emergency situations.



Thruster Guards

Prevents objects from interfering with motors.



Fuse

A 30 amp fuse within 30cm of the power connector to prevent damages from current spikes.

