

COMPANY SPEC SHEET

Class: EXPLORER (EX)

2026 MATE ROV World Championship

COMPANY SPECIFICATIONS

Company Number: EX26

Company Name: Underwater Robotics UConn (URUC)

Organization / School: University of Connecticut

Home State & Country: Storrs, CT, United States

Distance to Competition: ~1,000 miles (1,600 km) to St. John's, NL

Competition History: Returning Company

Grade / College Levels: Undergraduate & Graduate Students



Team Members: Krish Bhuvu (President), Colin Sheardwright (Vice President), Matthew Anevski (Business), Rashi Kachru (Business), Michael Valiante (Manipulator), Anthony Cavanaugh (Manipulator), David Vera (Manipulator), Jared Ku (Manipulator), Luis Quesada (Programming), Parker Meyers (Programming), Rayhaan Shaik (Programming), Shanique Rock (Programming), Vlad True (Programming), Aiden Choi (Programming), Dimitri Joseph (Programming), Kaden Schnieder (Frame), Ross Hill (Frame), Abimalek Hernandez (Frame), Adriel Stephen (Frame), Brayden Schereaun (Frame), Grant Donnelly (Frame), Kehna Mehta (Frame), Andrew Danforth (Frame), Jasir Zafar (Frame), Sean Steinle (Float), Anthony Hosu (Float), Alex Morquecho.

ROV SPECIFICATIONS

ROV Name: Dreadyacht

Total Cost: \$6,590.00 USD

Size Measurements: 60 cm (L) × 45 cm (W) × 40 cm (H)

Weight Measurement: 19kg

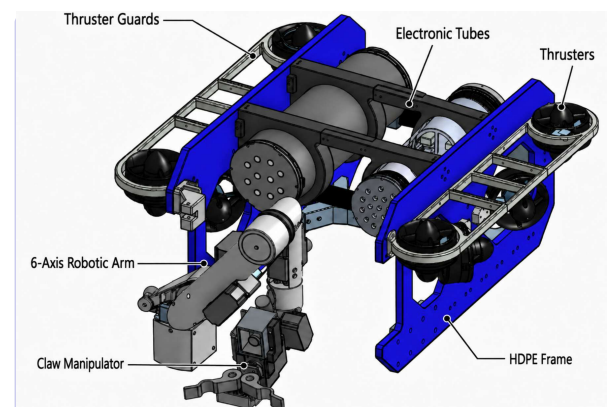
Student-Hours to Design & Build: ~950 Hours

Safety Features:

- T200 thrusters fully enclosed in custom 3D-printed PLA ring guards.
- Dual-enclosure system physically isolates 48V high-voltage circuits from low-voltage logic.
- Inline 30A fusing and robust top/bottom clamping strain relief to protect tether integrity.
- Ergonomic frame ridges on the HDPE chassis ensure safe, pinch-free manual deployment.
- Hardware-level TVS diodes, Schottky clamps, and physical limits on the robotic arm controller prevent unpredictable movement and voltage spikes.

Special Features:

- Custom continuous 6-axis robotic arm controlled by an intuitive, scaled master-arm pendant for precise subsea manipulation.
- Custom power management PCB utilizing dual Vicor modules per channel for high-current maneuvers.



The Dreadyacht: Fully integrated ROV featuring a custom 8-thruster vectored layout, dual camera enclosures, and the highly dexterous 6-axis manipulator arm payload.