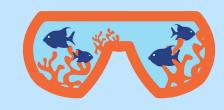


# Dragonfly



#### **Coral Crusaders ROV**

Unaffiliated

Redmond, WA, USA

Distance to World Championships: 3000km



## **Safety Considerations**



# **Deburred & Powder Coated Aluminum**

Creates a smooth finish to protect against incisions.



#### **Humidity Sensor**

Ensures quick shutdown of electronics in an emergency.



#### Thruster Guards

Guards all operating personnel from injury.



#### Lifeguard Training

Safety net in case personnel fall into pool. Two members are trained.

**Cost:** \$3,984.74 Weight: 10.80kg **Total Man-Hours:** 1497 hours Length: 45.0cm Height: 32.0cm **Width:** 47.0 cm

Dragonfly (above) is designed around modularity, movement, and strength. Its custom-machined aluminum frame is lightweight and has equally spaced mounting holes all over for flexibility. Our differential wrist allows for both rotation and pitching, supported by each of the two servos, while the underactuated gripper ensures an encompassing grip while maximizing component longevity. Adjustable steel ballast at the bottom of the ROV keeps it perfectly neutrally buoyant, and 8 Blue Robotics T200 thrusters enable all 6 degrees of freedom, with stability software and four low-latency USB cameras for a smooth piloting experience.

### Coral Crusaders is a third-year returning Redmond-based team.

\*Returning member



Vehd Reddy '26 **CEO & Mechanical Lead\*** 



Dylan Wu '25 COO & Electrical Lead\*



Rishi Pudipeddi '26 CTO & Software Lead\*



Vedant Mahawar '26 **Documentation & Operations Lead** 



Jian Chen '26 **Mechanical Engineer** 



Adam Robinson '27 Mechanical Engineer



Kounish Bhattachariee '26 Finance Lead\*



Ananya Kunnath '26 **Outreach Lead** 



Andv Pan '27 Camera Engineer



Jesse Li '25 **Electrical Engineer\***