NEMO



Roque Robotics Club Holmdel, New Jersey

ROV Specifications



Tether Length:

15 meters



Dimensions:

Length, Width, Height: 36 cm x 36 cm x 28 cm



Top Speed:

0.70 m/s



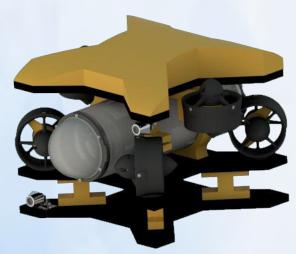
Weight:

7.62 kilograms



Maximum Rated Depth:

100 meters



CAD Design of NEMO

Special Features

Electrical System

Firmata Protocol Modularized components



Software System

Open Source Depth/Attitude Stabilization (Kalman IMU Sensor Filter



Manipulators & Sensors

Primary & Auxiliary Cameras Bar30 Depth Sensor Customized gripper



Safety Features

Motor Intake Guards Emergency Shut-off Button Student Training



Company History:

Rogue Robotics was founded in 2017, and this is its first year of competing in MATE, although some members have prior experience. The club is not affiliated with any school or organization. Members are in grades 9-12.

Company Information:



Company photo: (members listed left to right)

Rishi Salwi Alice Lai Eric Zheng Alisa Lai Sam Alws Gloria Liu Ananth Koppol Sophie Zhang Bryan Yao Electrical Lead; 2nd year
CEO, Pilot, Software Lead; 4th year
Mechanical Lead; 2nd year
Electrical Engineer; 2nd year
Software Engineer; 2nd year
Mechanical Engineer; 1st year
Electrical Engineer; 1st year
CFO, Mechanical Engineer; 1st year
Mechanical Engineer; 2nd year







Nemo ROV during a pool test



Distance to Seattle:

4643.4 kilometers



Total Cost:

\$2702.00



Total Work Hours: