

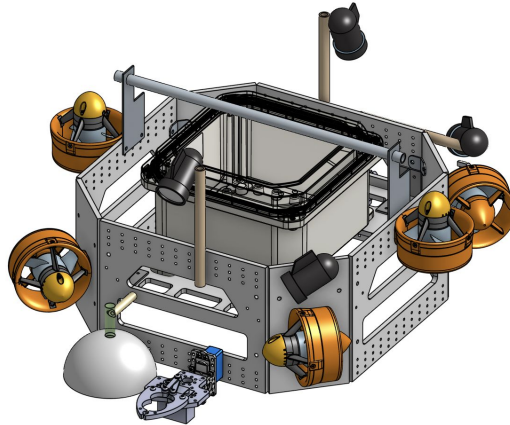
Spec Sheet

Redfin



Photo Credit:
M. Pugh

Redfin CAD



Design and Photo Credit:
A. Freedman

Our tagline: “ ‘Rizon to the challenge! ”



Pictured Left to Right
Back row: Shreeya, John, Alex, Matthew,
Adam, Noah
Front row: Vivaan, Kristin, Akshya, Adi,
Shubh, Anirud

SPECIAL FEATURES

- Four cameras
- Four manipulators
 - Dual-action gripper
 - Stationary gripper
 - Tent pin hook
 - UV light funnel system
- Vertical boost
- Variable ballast
- Vectored thrusters

SAFETY FEATURES

- 25 amp fuse on ROV
- Voltage regulators
- Motor shrouds
- Caution tape on shrouds
- Thruster guards
- SOS leak sensors
- Kill switch
- Tether strain reliefs
- Waterproofing as needed
- 7.5 amp fuse on profiler

EMPLOYEES

CEO: Adithya Selvakumar, JSO '23
Coach: Ms. Maureen Barrett

Electrical Engineers:

Akshya Amarnath, Senior EE '25
Shubh Kapadia, Pilot '27
Matthew Pugh, CMO '25
Kristin You '26

Software Engineers:

Alex Tornese, Senior SE '25
Noah Hyun '25
Anirud Sriram '27

Mechanical Engineers:

Adam Freedman, Senior ME '25
Shreeya Soma, CFO '25
Vivaan Talreja '27
John Shenouda '25

Italicized members are new to MATE.

**ROV
Weight**

4.5
kilograms

**ROV
Dimensions**

L: 77 cm
W: 57cm
H: 31cm

**Final
Cost**

\$5,190

**Total
Student
Hours**

3100

**Distance to
Longmont,
Colorado**

1,759 miles