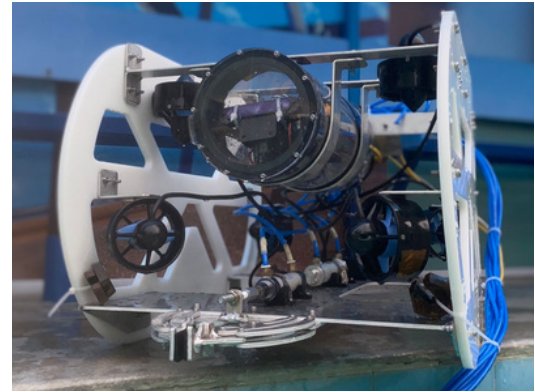


COMPANY SPEC SHEET



AUV Society

IITDM Kancheepuram, Chennai, India

- We are returning for the MATE-ROV World Championship with a new team this year.
- We will be travelling from Chennai to Colorado (around 14000 kilometers).
- Our team consists of students from their 2nd and 3rd year of B.Tech. (UG) Programme.

Safety Features:

- Emergency stop settings
- Stable 48V DC voltage supply
- Strain relief device for cables
- No sharp edges on the hull of ROV
- Custom 3D printed Thruster Shielding
- Kill Switch setup on the controller
- Fuse
- Use of Anderson SBS50 Connectors
- Use of standard Littelfuse of appropriate rating (20A)
- Use of XT and MT Connectors to prevent improper wiring
- No exposed wiring inside and outside ROV

Special Features:

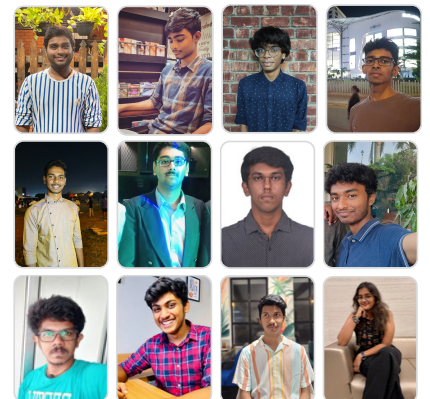
- High payload, High speed
- High adaptability to various scenarios
- Custom designed HDPE frame
- Lumen Lights
- Frame designed to act as lifting handle
- Easily interchangeable thruster configuration
- High Quality Camera vision - OAKD Series 3
- Secondary camera to manage gripper usage
- Modular ROS based Control System
- Symmetrical body, 6 degrees of Freedom
- Additional Hull Space for future technical expansion and improvement
- Hybrid - Can be modified to work as both ROV & AUV.

ROV Specs

ROV Marty

Total Cost Spent	3,01,140 INR
Size	80.3cm x 43.5cm x 47.4 cm
Weight	15.15kg
Student hours spent	6-7 months

Our Team



Venkata Madhav	CEO, Software Team
M Vibhav Gopal	Software Team, Pilot
V S Roshan	Software Team, Operations
R Soorya	Software Team, Vision Control
Abhishek M J	Software Team, Vision Control
M. Nithin	Electronics Team, Systems
K S Raahul	Electronics Team, CTO
Srikrishnan S	Mechanical Team, CFO
Vishal A S	Mechanical Team, R&D
Raghavendran S	Mechanical Team, R&D
Vijay Krishna R V	Mechanical Team, Publicity
Vaishnavi M	Mechanical Team, Testing