PROVENS ROBOTICS

Purdue University

West Lafayette, Indiana, USA







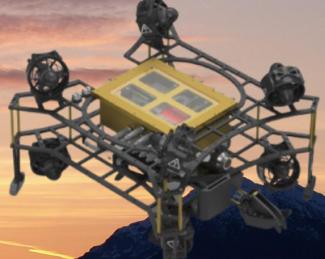




Members: College Freshman – Senior ROV Sub-Optima

2021 Finish: 4th Place **Estimated Travel**: 2100 miles

Year Competing: Thirteenth Year



Total Mass in Air: 11 kg

Overall dimensions: 21 cm x 21 cm x 14 cm

Primary Material: Aluminum 6061 T-G, Polyactic acid (PLA)

filament, Polycarbonate

Total Cost of ROV: \$ 6286.32

Total ROV Design Work-Hours: 14,000 Hours

Safety Features: Master Fuse, Integrated Thruster Shrouds, Software Diagnostic Tool, Manual Disengagement, Rounded Edges

Special Features: Custom Printed Circuit Boards (PCBs), Waterjet-cut frame, 6 30-ms latency camera streams,

Pneumatically actuated manipulators and tools, Adjustable ballast

Name, Position (New Members denoted by *)

Katherine Sandys
Sebastian Gruenwald
Jonathan Heidegger

Corina Capuano Read Hedl

Peter Salisbury

Hunter Haglid

Erin Park

Joseph Navarra

Bryce Sasser

Rachel Livesay

Kaitlyn Yu

Chief Executive Officer

Sponsorship Coordinator

Pilot /Software Department Co-Lead

Mechanical Department Co-Lead

Electrical Department Lead

Mechanical Department Co-Lead

Pilot /Software Department Co-Lead

Electrical Board Head

Mechanical Department

Electrical R&D Head

Electrical Department

Electrical Department

Edmund Leung

Minh Nguyen*

Brandon Pham*

Cole Kniffen*

Peter Sperry*

Yusuf Jarada*

Raghav Kumar Sudharshan Kumar*

Mentors: Michael Hayashi, Tyler Stagge

Christopher Laszlo

Matt Koeske

Lauren Sandys*

Jason Zheng*
Ronny Chan*

Electrical Department

Mechanical Department

Mechanical Department

Mechanical Department

Mechanical Department

Mechanical Department

Nikitha Sam *

Alex Beers *

Ulysses Hennelly *

Daniel Choi *

Jason Bleasdell

Zachary Neel

Cyrus Xu

Abhilash Saravana *

Shyawn Zahid *

Jack Xiang *

Bradley Abelman

Mechanical Department

Mechanical Department

Mechanical Department

Mechanical Department

Software Department