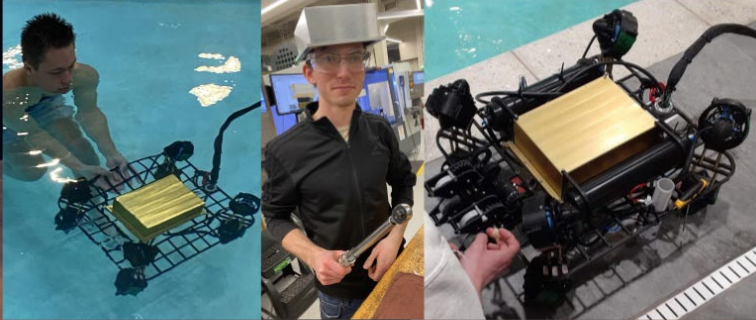# PROVEN ROBOTICS

PURDUE ROV

2021 Finish: 10th Place
Estimated Travel: 1100 miles
Year Competing: Fourteenth Year
Members: College Freshman – Senior

ROV *Iso-Squid*

Purdue University
West Lafayette, Indiana, USA

Total Mass in Air: 9.74 kg
Overall dimensions: 64 cm x 79 cm x 33 cm
Primary Material: Aluminum 6061 T6, Polylactic acid (PLA) filament, Polycarbonate
Total Cost of ROV: $ 8,793
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 *)

Name	Position	Name	Position	Name	Position
Peter Salisbury	Chief Executive Officer	Katherine Sandys	Electrical Department Consultant	Arjun 'AJ' Grama*	Electrical Department
Benjamin Tapp*	Sponsorship Coordinator	Ronny Chan	Mechanical Department	Ayman Motoda*	Electrical Department
Corina Capuano	Mechanical Department Lead	Jorge Varela*	Mechanical Department	Derek Chi*	Electrical Department
Bryce Sasser	Electrical Department Co-Lead	Jakob Robbins*	Mechanical Department	Ethan Kessel*	Electrical Department
Rachel Livesay	Electrical Department Co-Lead	Josh Domingues*	Mechanical Department	Hyunseok 'Chris' Hong*	Electrical Department
Zachary Neel	Software Department Co-Lead	Colton Thiel*	Mechanical Department	Vijay Tummalapenta*	Electrical Department
Hunter Haglid	Software Department Co-Lead (Fall)	Harrison Booker*	Mechanical Department	Vivek Matta*	Electrical Department
Bradley Abelman	Software Department Co-Lead (Spring)	Niklas Anderson*	Mechanical Department	Malcom McClymont*	Electrical Department
Jason Zheng	Mechanical R&D Head	Eva Maria DeRamon*	Mechanical Department	Daniel Choi	Electrical Department
Alex Beers	Mechanical Structures Head	Raygan Bingham*	Mechanical Department	Neil Brown*	Software Department
Raghav Kumar	Electrical Embedded and R&D Head	Thomas Horner*	Mechanical Department	Jack Gardner*	Software Department
Minh Nguyen	Electrical PCB Head	Akhilesh Prasad*	Electrical Department	Ben Boardley*	Software Department
		Ethan Burmane*	Software Department	Caden Brennan*	Software Department

Mentors: Michael Hayashi