

# PROVEN ROBOTICS



Purdue University  
West Lafayette, Indiana, USA



2017 Finish: 8th Place  
Estimated Travel: 2,196 Miles  
Year Competing: Ninth Year  
Members: College Freshman - Senior  
**ROV CETACEAN**



**Total Mass in Air:** 14.69 kg  
**Overall Dimensions:** 42.82 cm x 36.61 cm x 38.10 cm  
**Primary Material:** Aluminum 6061 T-6, Polylactic acid (PLA), Polycarbonate  
**Total Cost of ROV:** \$6,773  
**Total ROV Design Work-Hours:** 7000 Hours  
**Safety Features:** Master Fuse, Thruster Shrouds, Software Diagnostic Tool, Manual Disengagement, Rounded Edges, Pressure Release Valve  
**Special Features:** Custom Printed Circuit Boards (PCBs), Waterjet-cut frame, Primary Manipulator, magnetic slip coupling/quick release, full 6-degree of freedom control, computer vision, stability control

## Name, Position (New Members Denoted by \*)

Alex Ruffino	Chief Executive Officer	James Scholl	Electrical Department	Rohit Srivastava	Mechanical Department
Ryan McBee	Chief Operating Officer	Jessica Chin	Electrical Department	Scott Hotchkiss*	Mechanical Department
Carolyn Lewelling	Chief Financial Officer/Power Head	Joshua Burdine*	Electrical Department	Andrew Bostock	Software Department
Jason King	Electrical Department Head	Luke McBee	Electrical Department	Eric Sibley*	Software Department
Joshua Berg	Mechanical Department Head	Melchor De la Garza*	Electrical Department	Jeremy Chang*	Software Department
Ben Maxfield	Software Department Head/Pilot	Mimansa Verma	Electrical Department	Jieun Lee*	Software Department
Charles Li	Cameras & Sensors Head	Sam Deghuee	Electrical Department	Joey Danial	Software Department
Katie Mao	Logic Boards & Structures Head	Aidan Molnar*	Mechanical Department	Jungyoon Yu*	Software Department
Ian Sibley	Surface Head	Alyssa Cwidak*	Mechanical Department	Keith Aylwin	Software Department
Alex Gebhardt	Tools Head	Ben Hutchins	Mechanical Department	Kendal Norman	Software Department
Amandeep Singh	Sponsorship/Mechanical Dept	Haley Nelson*	Mechanical Department	Lindsey May*	Software Department
Logan Walters	Sponsorship/Mechanical Dept	Jeremy (Yun-Jui) Tu*	Mechanical Department	Oluwatobi Ola*	Software Department
Tyler Stagge	Pilot/Mechanical Department	Jonathan Kline	Mechanical Department	Sam Jenkins	Software Department
Abbey Lee*	Electrical Department	Katherine Mao	Mechanical Department	Viktoryia Zhuleva*	Software Department
Cythnia Zatlakowicz*	Electrical Department	Lexi Marks*	Mechanical Department	Ya-Wen Chu*	Software Department
Evelyn Ware*	Electrical Department	Matthew Eagon*	Mechanical Department	Youngsik Yoon*	Software Department
Grant Geyer*	Electrical Department	Max Mergentime*	Mechanical Department	Mentors:	None
Jacob Bobson*	Electrical Department	Reed Trende	Mechanical Department		