

# PROVEN ROBOTICS



2019 Finish: 13<sup>th</sup> Place  
 Estimated Travel: 500 miles  
 Year Competing: Twelfth Year  
 Members: College Freshman – Senior  
**ROV TRITON**

Purdue University  
 West Lafayette, Indiana, USA



**Total Mass in Air:** 13 kg  
**Overall dimensions:** 48.3 cm x 47.5 cm x 33 cm  
**Primary Material:** Aluminum 6061 T-6, Polyactic acid (PLA) filament, Polycarbonate  
**Total Cost of ROV:** \$ 7,699.26  
**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 3D-ms latency camera streams, Pneumatically actuated manipulators and tools, Adjustable ballast



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

|                     |  |                   |                       |                 |                       |
|---------------------|--|-------------------|-----------------------|-----------------|-----------------------|
| Grant Geyer         | Chief Executive Officer / Electrical Dpmt. Co-Lead     | Erin Park         | Electrical Department | Angelo Guarnero | Mechanical Department |
| Joseph Navarra      | Mechanical Department Co-Lead                          | Logan Grissom     | Electrical Department | Hanna Hatfield  | Mechanical Department |
| Aidan Molnar        | Mechanical Department Co-Lead                          | Rachel Livesay*   | Electrical Department | Matt Koeske     | Mechanical Department |
| Scott Hotchkiss     | Research & Development Lead / Electrical Dpmt. Co-Lead | Bryce Sasser*     | Electrical Department | Peter Salisbury | Mechanical Department |
| Read Hedl           | Power Head   | Kaitlyn Yu*       | Electrical Department | Corina Capuano* | Mechanical Department |
| Katherine Sandys    | Logic Head / CDD                                       | Sam Kovnar*       | Electrical Department | Cyrus Xu*       | Mechanical Department |
| Ryan Pearson        | Electrical Design Advisor                              | Chris Laszlo      | Mechanical Department | Aaradhya Jajoo* | Mechanical Department |
| Conner Swift        | Embedded Head  | Rafay Imran       | Mechanical Department | Carrie Li       | Software Department   |
| Eric Sibley         | Software Department Co-Lead                            | David Ho          | Mechanical Department | Jason Bleasdel  | Software Department   |
| Jonathan Heidegger  | Software Department Co-Lead                            | Abhignan Saravana | Mechanical Department | Zachary Neel*   | Software Department   |
| Ivan Kouzmine       | Pilot / Front End Head                                 | Nathan Fei        | Mechanical Department | Hunter Haglid*  | Software Department   |
| Sebastian Gruenwald | Sponsorship Coordinator                                |                   |                       |                 |                       |

**Mentors:** Michael Hayashi, Tyler Stagge