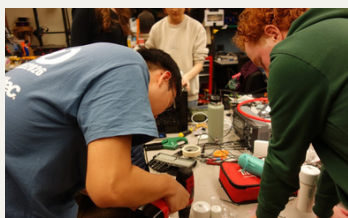


Purdue ROV Spec Sheet

PURDUE UNIVERSITY

West Lafayette, IN, USA



ROV FEATURES

SAFETY

- Master fuse
- Integrated thruster shrouds
- Software diagnostic tools (current draw, Raspberry Pi temperature sensor)
- Internal leak sensors
- Tether strain relief

SPECIAL

- Custom in-house PCB stack (7 boards)
- Full rotation primary manipulator
- ROS2 modular software architecture
- 30ms latency multi-camera streams & Computer Vision functionality (crab detection, iceberg keel depth, 3D coral reef reconstruction)
- R&D: Test bench, custom ESC development

SPECS



Weight

13.6 kg



Dimensions

71 cm x 46 cm x 28 cm



Cost

\$8,500



Time

12,000 man-hours



Distance

2409 miles



Years Competing

17

EMPLOYEES

Rhea Virk-----CEO
Lauren Grindstaff-----COO
Vijay Tummalapenta-----CTO

ELECTRICAL

Keona Fielitz -----Electrical Co-Lead
Sahil Mitra -----Electrical Co-Lead
Nicholas Zhang -----Boards Lead
Colin Mattson
Francis Hasin
Rex Wu
Bennet Yi
Tanay Ubale
Vasu Sahai
Mixuan Pan
Remley Hooker
Jason Lyst
Aman Katyal
Sam Nadol
Jake Zegger

SOFTWARE

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Aditya Nawandhar -----Software Co-Lead
Aran Pandey-----Computer Vision Lead
Matt Stein
Mofiyinfoluwa Orekoya
Matthew Wang
Tommy Clark
Lucas Mauser
Tanay Jain
Rishi Doddi
Vaibhav Kishore
Arun Pallikkattil

MECHANICAL

Alex Tran -----Mechanical Co-Lead
Tai Hsu -----Mechanical Co-Lead
Ian MacPhail -----Tools Lead
Hayden Varichak
Shriya Narasimhan
Henry Shook
Jeremiah Abernathy
Arushi Patel
Minh Quoc Bao Phan
Shidan Wan
Mia Yaun