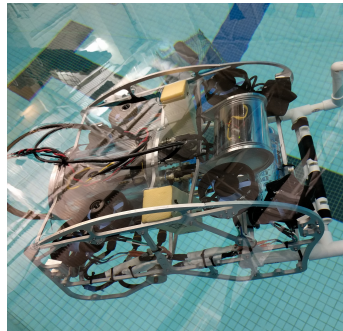




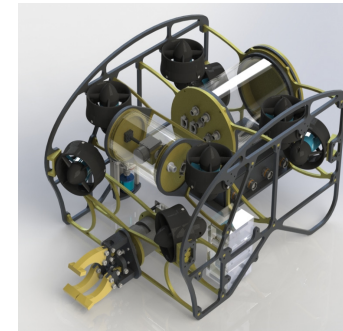
PROVEN ROBOTICS

Purdue University IEEE ROV Team
West Lafayette, Indiana, USA



ROV MAELSTROM

2015 Finish: 15th Place
Estimated Travel: 1,1418 km
Year Competing: Seventh Year
Members: College Freshman - Senior



Total Mass in Air:
12.8 kg

Overall Dimensions:
48.3 cm x 39.4 cm x 33.0 cm

Primary Material:
Aluminum 6061 T-6
Stainless Steel
Polycarbonate

Total Cost of ROV:
\$10,500

Total ROV Design Man-Hours:
6,500 hours

Safety Features:
Enclosed Pump
Fused Main Power
Shrouded Propellers

Software Disconnection Timeouts
Hydraulics Pressure Release Valve
Epoxy and Heat Shrink Sealed Wires

Special Features:
Onboard Open-Loop Hydraulics
LED-Illuminated Camera with Tilt
Custom Built On-Board Electronic System
Four-Axis Sonar Based Positioning System

Administrative Team

Kyle Rakos	CEO
Sanay Shah	COO
Luke McBee	Electrical Team Lead
Joshua Berg	Mechanical Team Lead
Matthew Molo	Software Team Lead & ROV Pilot
Ryan Mcbee	Embedded Software Subteam Lead
Carolyn Lewelling	Lead Sponsorship Coordinator
Alex Ruffino	Sponsorship Coordinator
Ashiq Kurian	Poster Designer
Henry Shi	Technical Writer

Electrical Team

Luke McBee
Rodolfo Leiva
Wen Shen Mow
Austin White
Dimcho Karakashev
Jakob Andren
Jeff Geiss
Alan Han
Diyue Liang
Paul Swartz
Carolyn Lewelling
Bayley Clausen
Xinyi Jiang
Nicholas Loffredo

Mechanical Team

Joshua Berg
Amandeep Singh
Tom Lorenc
Teal Dowd
Dan Schillizzi
Alex Ruffino
Rohit Srivastava
Jared Borg
McKenzie White
Joseph Pejril
Yugin Duan
Scott Giammatteo
Katie Lothrop

Software Team

Matthew Molo
Ryan McBee
Yugin Duan
Jason King
Joel Copi
Vyaas Shankar
Oksana Makarova
Ajay Gopakumar

Mikey Reeves
Nathan Glotzbach
Brandon Stewart
Adam Kranz
Ben Maxfield
Charlie Su
Mimansa Verma
Jakob Andren

Pilots

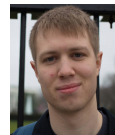
Matthew Molo
Joseph Pejril
John Lee



Kyle Rakos
Computer Engineering
Junior: CEO
2nd Year Competing



Sanay Shah
Industrial Engineering
Sophomore: COO
2nd Year Competing



Joshua Berg
Mechanical Engineering
Junior: Mechanical Team Lead
ROV Pilot
2nd Year Competing



Matt Molo
Computer Science
Junior: Software Team Lead
ROV Pilot
3rd Year Competing



Luke McBee
Computer Engineering
Sophomore: Electrical
Team Lead
2nd Year Competing



Ryan McBee
Computer Engineering
Sophomore: Embedded
Software Subteam Lead
2nd Year Competing



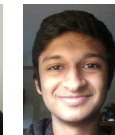
Carolyn Lewelling
Electrical Engineering
Sophomore: Lead Sponsorship
Coordinator
Electrical Team
2nd Year Competing



Alex Ruffino
Mechanical Engineering
Freshman: Sponsorship
Coordinator
Mechanical Team
1st Year Competing



Henry Shi
Industrial Engineering
Sophomore: Technical Writer
1st Year Competing



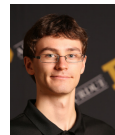
Ashiq Kurian
Industrial Engineering
Sophomore: Poster Designer
1st Year Competing



Jared Borg
Mechanical Engineering
Freshman: Mechanical Team
5th Year Competing



Joseph Pejril
Mechanical Engineering
Junior: Mechanical Team
ROV Pilot
2nd Year Competing



Teal Dowd
Mechanical Engineering
Sophomore: Mechanical Team
2nd Year Competing



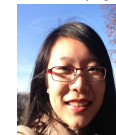
Dan Schillizzi
Mechanical Engineering
Sophomore: Mechanical Team
2nd Year Competing



Oksana Makarova
Electrical Engineering/Physics
Freshman: Software Team
1st Year Competing



John Lee
Computer Engineering
Senior: Software Team
ROV Pilot
1st Year Competing



Xinyi Jiang
Electrical Engineering
Senior: ROV Pilot
1st Year Competing



Rodolfo E. Leiva
Electrical Engineering
Junior: Electrical Team
2nd Year Competing



Samuel Deghwee
Electrical Engineering
Sophomore: Electrical Team
2nd Year Competing



Bayley Clausen
Mechanical Engineering
Junior: Electrical Team
2nd Year Competing



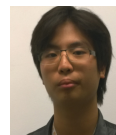
Alex Gohhardt
Mechanical Engineering
Freshman: Mechanical Team
1st Year Competing



Yugin (Sophia) Duan
Computer Engineering
Freshman: Software &
Mechanical Team
1st Year Competing



Rohit Srivastava
Mechanical Engineering
Freshman: Mechanical Team
1st Year Competing



Charlie Su
Computer Science/Physics
Sophomore: Mechanical Team
2nd Year Competing



Ajay Gopakumar
Computer Engineering
Freshman: Software Team
1st Year Competing



Jason King
Computer Engineering
Freshman: Software Team
1st Year Competing



Michael Reeves
Physics/Computer Science
Freshman: Software Team
1st Year Competing



Nicholas Loffredo
Electrical Engineering
Sophomore: Software Team
1st Year Competing



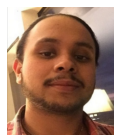
Jakob Andren
Engineering Physics
Senior: Electrical &
Software Team
1st Year Competing



Alan Han
Electrical Engineering
Sophomore: Electrical Team
1st Year Competing



Scott Giammatteo
Aerospace Engineering
Freshman: Mechanical Team
1st Year Competing



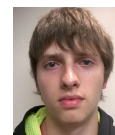
Amandeep Singh
Mechanical Engineering
Freshman: Mechanical Team
1st Year Competing



McKenzie White
Environmental and Ecological
Engineering
Freshman: Mechanical Team
1st Year Competing



Katie Lothrop
Mechanical Engineering
Sophomore: Mechanical Team
1st Year Competing



Joel Copi
Computer Engineering
Freshman: Software Team
1st Year Competing



Mimansa Verma
Computer Engineering
Freshman: Software Team
1st Year Competing



Nathan Glotzbach
Physics
Freshman: Software Team
1st Year Competing



Ben Maxfield
Computer Science
Freshman: Software Team
1st Year Competing



Brandon Stewart
Computer Science
Freshman: Software Team
1st Year Competing



Charles Li
Electrical Engineering
Sophomore: Electrical Team
1st Year Competing