Rose-Hulman Robotics Team
Rose-Hulman Institute of Technology, Terre Haute IN, USA
Distance to International Event: 2500 miles

About the Team:
The Robotics Team at the Rose-Hulman Institute of Technology is a student-led extracurricular group dedicated to exploring a diverse array of robotics applications. Other projects include autonomous rovers and networked quadcopters. 2014-2015 is the fourth year we have built a remotely-operated underwater vehicle. We are grateful to Rockwell-Collins for continued sponsorship and support.

Team Members:

Peter Heath
Junior
Mechanical Engineering
Company President

Joe Schornak
Junior
Mechanical Engineering
ROV Project Manager

Cody Bressler
Senior
Mechanical Engineering

Nathan Blank
Sophomore
Software Engineering

Carolyn Holthouse
Sophomore
Mechanical Engineering

Aaron Jones
Sophomore
Mechanical Engineering

Sam Lawrence
Sophomore
Computer Engineering

Sabeeh Khan
Freshman
Computer Engineering

Lecea Sun
Freshman
Mechanical Engineering

Betsy Tainer
Freshman
Mechanical Engineering

Colton Watson
Freshman
Biomedical Engineering

ROV: Ægir
Namesake: A Norse giant associated with wild oceanic festivity.
Approximate Total Cost: $7000
Dimensions: 80cm L x 52cm W x 35cm H
Approximate Mass: 20kg
Structure: Aluminum, Stainless Steel
Flotation: Polystyrene

Safety Features:
30A master breaker
Durable waterproof tether
Ducted thrusters
Minimal sharp edges
Dedicated lifting handles

Other Features:
2-axis servo-driven camera gimbal
Networked underwater cameras
Pneumatic parallel-jaw gripper
Vectored thrust for 4-DOF motion
Inertial navigation system
Hot stab mounting hardpoint
Passive algae collector
Infrared illumination