

# 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



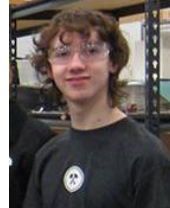
Joe Schornak  
Junior

Mechanical Engineering  
ROV Project Manager



Cody Bressler  
Senior

Mechanical Engineering



Nathan Blank  
Sophomore

Software Engineering



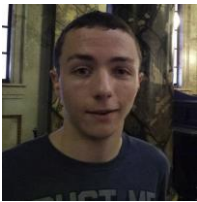
Carolyn Holthouse  
Sophomore

Mechanical Engineering



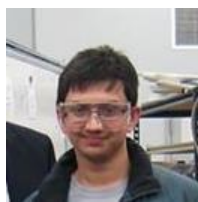
Aaron Jones  
Sophomore

Mechanical Engineering



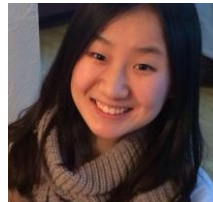
Sam Lawrence  
Sophomore

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

