

Rose-Hulman Robotics Team

Rose-Hulman Institute of Technology, Terre Haute IN, USA

Distance to International Event: 900 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 battle-bots and networked quadcopters. 2015-2016 is the fifth year we have built a remotely-operated underwater vehicle. We are grateful to Rockwell-Collins for continued sponsorship and support.

Team Members:



Joe Schornak
Senior
Mechanical Engineering
Team President



Samuel Lawrence
Junior
Computer Engineering
ROV project manager



Peter Heath
Senior
Mechanical Engineering



Nathan Blank
Junior
Software Engineering



Sabeeh Khan
Sophomore
Computer Engineering



Nick Kiesel
Sophomore
Computer Engineering



Amelia Rolf
Freshman
Mechanical Engineering



Parker Phillips
Freshman
Computer Engineering



Betsy Tainer
Sophomore
Mechanical Engineering



Brad Drake
Sophomore
Mechanical Engineering



Riley Shore
Freshman
Electrical Engineering



Connor Crenshaw
Freshman
Electrical Engineering

ROV: Floyd

Approximate Total Cost: \$6400

Dimensions: 60cm L x 52cm W x 58 cm H

Approximate Mass: 20kg

Structure: Aluminum, Stainless Steel

Flotation: Polystyrene

Other Features:

- 3-axis servo-driven camera gimbal
- Underside Auxiliary Camera
- Low Latency, stereo-vision Cameras
- Pneumatic parallel-jaw gripper
- Vectored thrust for 4-DOF motion
- Temperature and pressure measurement capabilities

Safety Features:

15A fuse
Durable waterproof tether
Shrouded thrusters
Minimal sharp edges

