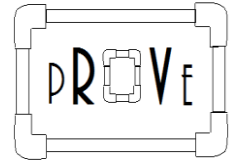




PENNSYLVANIA ROV ENGINEERS



POSEIDON SPECIFICATION SHEET

EXCELSIOR HOMESCHOOL COOPERATIVE - ALLENTOWN, PA

TEAM INFORMATION:

PROVE:

David Sampsell-

Chief Executive Officer, Grade 10

Matthew Buonanno-

Programmer, Grade 11

Stephen Gahman-

Electronics Engineer, Grade 10

Micah Smith-

Design Engineer, Grade 11

Natalie Sampsell-

Graphic Designer, Editor, Grade 8

Hannah Smith-

Graphic Designer, Photographer, Grade 9

Thomas Buonanno-

Lead Researcher, Marketing, Grade 8

Tim Gahman-

Tool Researcher, Safety Officer, Grade 8



Back (left to right): Matthew Buonanno, Stephen Gahman, David Sampsell, Micah Smith, Natalie Sampsell

Front (left to right): Thomas Buonanno, Tim Gahman, Hannah Smith

ROV Name: Poseidon

Name of School: Excelsior Homeschool Cooperative

Construction Address: 2455 Chardonnay Drive, Macungie, PA

Name of Team: pROVE - Pennsylvania ROV Engineers

Coaches' Names: Robin Sampsell, Heidi Smith

Mentors' Names: Dave Sampsell, Leonard Smith

Company History: Start-up company, first year of operation

Members Attending Competition: All

Distance to International Competition, Orlando: 1,770 km

ROV SPECIFICATIONS:

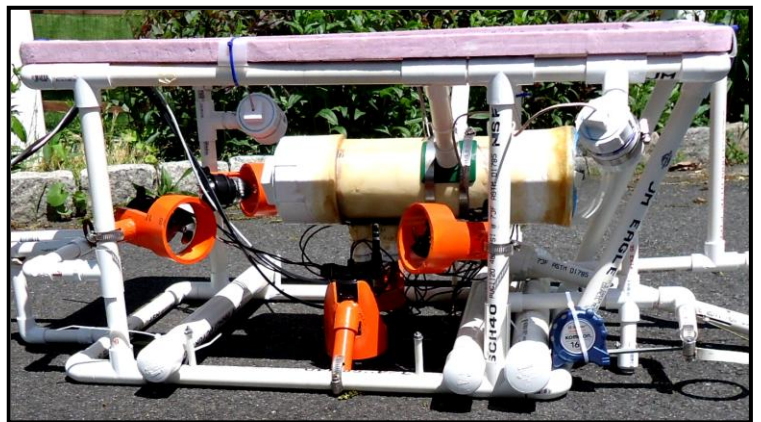
Vehicle Dimensions: 0.85 m x 0.50 m x 0.45 m

Vehicle Weight: 18.6 kg

Material: Primarily PVC, fiberglass, and Plexiglas

Safety Features: A main power switch will shut off the ROV instantaneously in case of an emergency. A 25 amp fuse is also installed in case of a short circuit. Kort nozzles protect people from the propellers.

Special Features: A vectored thruster arrangement gives the ROV superior maneuverability in all axes of movement, and fully proportional control via an Xbox 360 controller and a microcontroller provide seamless pilot integration.



POSEIDON