



Palos Verdes Institute of Technology

“High quality underwater engineering at its finest.”

Corporate Information:

*Established 2008
Palos Verdes High School
Palos Verdes Estates, California
Distance to Alpena, Michigan: 3229 kilometers*

PVIT ROV Ranger Team:

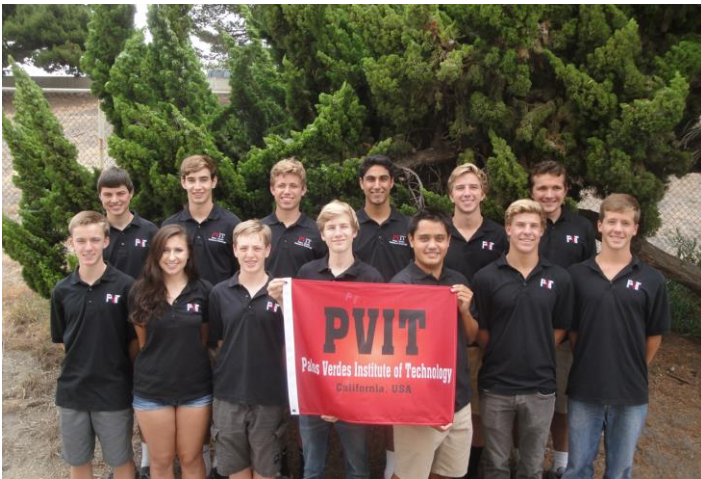


Photo by Julie Smalling

Back row (L to R): Mark Caropino, John Robertshaw, Shane Sharp, Shaun Sidhu, Nick Vlaco, Grant Vanderdonck. Front row: Lucas Allen, Nora Potenti, Aaron Trell, Kraig Kreiner, Joshua Magid, Chandler Jones, Dennis Smalling

Nautilus Specifications:

Total Cost: \$1,502 spent in 2014; Seabotix motors purchased in 2012 for \$2,700

Primary Materials: Acrylic, Aluminum, and Polypropylene

Dimensions: 60cm length X 56cm width X 35cm height

Total Mass: 15.06 kg

Safety Features: 25 amp fuses, Kort nozzle propeller guards, Loctite used on screws and nuts

Special Features: PlayStation 2 controller, Arduino microprocessors, polypropylene frame, high capacity Seabotix thrusters, Pololu motor controller, tight turning capability, Gopro Hero 3

History of MATE ROV competition participation:

- 2014 1st place Southern California Fly off Ranger Class
- 2013 2nd place Southern California Fly off Ranger Class
- 2012 2nd place International MATE Competition Ranger Class
- 2012 1st place Southern California Fly off Ranger Class
- 2011 Harry Bohm and Jill Zande Sharkpedo Award Ranger Class
- 2011 21st place International MATE Competition Ranger Class
- 2011 1st place Southern California Fly off Ranger Class
- 2010 2nd place Southern California Fly off Ranger Class

2014 Ranger Team:

- Dennis Smalling**- CEO, Junior, 3rd year
- Chandler Jones**- COO, Junior, 2nd year
- Kraig Kreiner**- CFO, Pilot, Sophomore, 2nd year
- Mark Caropino**- CTO, Junior, 3rd year
- John Robertshaw**- Chief Electrical Engineer, Sophomore, 2nd year
- Nick Vlaco**- Chief Mechanical Engineer, Junior, 2nd year
- Joshua Magid**- Electrical Engineer, Freshman, 1st year
- Nora Potenti**- Electrical Engineer, Senior, 3rd year
- Lucas Allen**- Mechanical Engineer, Sophomore, 2nd year
- Shaun Sidhu**- Mechanical Engineer, Sophomore, 2nd year
- Aaron Trell**- Mechanical Engineer, Sophomore, 2nd year
- Shane Sharp**- Mechanical Engineer, Sophomore, 2nd year
- Grant Vanderdonck**- Mechanical Engineer, Sophomore, 1st year



Photo by Kraig Kreiner