

Palos Verdes Institute of Technology Specification Sheet 2014

Palos Verdes Institute of Technology Headquarters
2014 Ranger Team: Palos Verdes High School, Palos Verdes Estates, California
Distance to Alpena, Michigan: 3229 kilometers

History of MATE ROV competition participation:

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

Team Members:



Photo By: Julie Smalling

Palos Verdes Institute of Technology

(Back row, left to right) **Aaron Trell**-Class of (c/o) 2016, 2nd yr. Mechanical Fabricator, Asst. Electrical Designer; **Chandler Jones**- c/o 2015, 2nd yr. Co-CEO of ROV operations; **Joshua Magid**- c/o 2017, 1st yr. Asst. Electrical Designer; **Nora Potenti**- c/o 2014, 3rd yr. Co-Chief of Electrical Design & Fabrication; **Shane Sharp**-c/o 2016, 2nd yr. Mechanical Fabricator, Asst. Electrical Designer; **Dennis Smalling**- c/o 2015, 3rd yr. Co-CEO, Electrical & Software Engineer; **Kraig Kreiner**- c/o 2016, 2nd yr. Co-CEO, Electrical Engineer, Pilot

(Front row, left to right) **John Robertshaw**- c/o 2016, 2nd yr. Co-Chief, Electrical Design & Fabrication; **Shaun Sidhu**- c/o 2016, 2nd yr. Asst. Mechanical Fabricator; **Nick Vlaco**- c/o 2015, 2nd yr. Co-Chief of Electrical Design & Fabrication; **Grant Vanderdonck**- c/o 2016, 1st yr. Asst. Mechanical Fabricator; **Mark Caropino**- (c/o) 2015, 3rd yr. Co-CEO Mechanical & Electrical Designer/Fabricator;

(Not pictured) **Lucas Allen**- c/o 2016, 2nd yr. Asst. Engineer;

Nautilus

Nautilus Specifications:

Total Cost: \$2500 spent in 2014. Seabotix motors purchased in 2012 for \$2700

Primary materials: Acrylic, Aluminum, and Polypropylene

Dimensions: 60 cm Length X 56 cm Width X 35 cm Height

Total Mass: 8.16 kg

Safety features: 25 amp fuses, Kort nozzle propeller guards, used Loctite 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

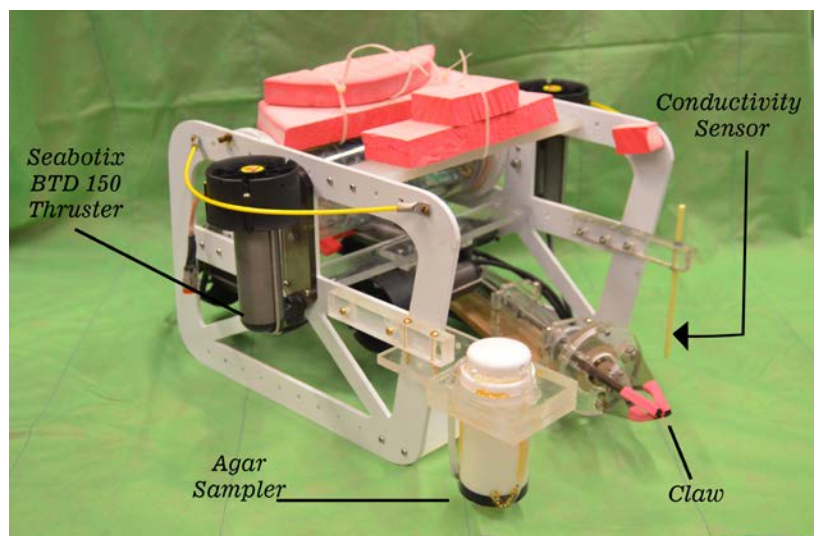


Photo By: Kraig Kreiner