



"Seeking Depth in Underwater Engineering"

Palos Verdes Institute of Technology **PVIT ROV Ranger Team**



Photo by Kraig Kreiner

Corporate Information

Palos Verdes High School
Palos Verdes Estates, CA
Distance to St. John's, NL: 7,173 km.

Nautilus II Specifications:

Total Cost: \$5493.93

Primary Materials: Acrylic, Aluminum, and Polypropylene

Dimensions: 73.5cm length X 57cm width X 37cm height.

Safety Features: 25 amp fuse, Kort nozzle propeller guards, All sharp objects covered, Double O Ring seal, Slight positive buoyancy.

Special Features: PlayStation 2 controller, Arduino microprocessors, polypropylene frame, high capacity Seabotix thrusters, Pololu motor controller, tight turning capability, GoPro Hero 3+ Black Edition Camera.

History of MATE ROV competition participation:

2014 5th Place International MATE Competition, Ranger
2014 1st place Southern California Fly off, Ranger
2013 2nd place Southern California Fly off, Ranger
2012 2nd place International MATE Competition, Ranger
2012 1st place Southern California Fly off, Ranger
2011 Harry Bohm and Jill Zande Sharkpedo Award, Ranger
2011 21st place International MATE Competition, Ranger
2011 1st place Southern California Fly off, Ranger
2010 2nd place Southern California Fly off, Ranger



Photo by Mary Dirroll-Jones

First row (L to R): Brock Pennington, Chandler Jones, Kraig Kreiner, Mark Caropino, Dennis Smalling, Casey Jo. Second Row: Max Ebling, Nick Vlaco, Grant Vanderdonck, Brian Smalling, Joshua Magid, Aaron Trell, Lucas Allen. Third Row: Jack Lynch, John Robertshaw, Shaun Sidhu, Jacob Criss, Shane Sharp.

2015 Ranger Team Organization

Kraig Kreiner, Chief Executive Officer, Pilot
3rd yr., Class Of 2016

Dennis Smalling, Company President
4th yr., Class Of 2015

Mark Caropino, Chief Technical Officer
4th yr., Class Of 2015

Chandler Jones, Lead Mechanical Engineer
3rd yr., Class Of 2015

John Robertshaw, Lead Electrical Engineer
3rd yr. Class Of 2016

Nick Vlaco, Lead Communication Officer
3rd yr., Class Of 2015

Lucas Allen, Safety Engineer
3rd yr., Class Of 2016

Joshua Magid, Lead Software Engineer
2nd yr., Class Of 2017

Aaron Trell, Lead Mission Analyst
3rd yr., Class Of 2016

Grant Vanderdonc, Financial Officer
3rd yr., Class Of 2016

Brian Smalling, Assistant Mission Analyst
1st yr., Class Of 2018

Shane Sharp, Design Integration
3rd yr., Class Of 2016

Jacob Criss, Arctic Environmental Engineer
1st yr., Class Of 2016

Shaun Sidhu, Mechanical Engineer
3rd yr., Class Of 2016

Brock Pennington, Mechanical Engineer
1st yr., Class Of 2016

Max Ebling, Mechanical Engineer
1st yr., Class Of 2016

Casey Jo, Systems Engineer
1st yr., Class Of 2016

Jack Lynch, Operations Engineer
1st yr., Class Of 2016