

Palos Verdes High School
Palos Verdes Estates, California, USA
Distance to Johnson Space Center, TX: 2,567 KM.



Palos Verdes Institute of Technology

History of MATE ROV Competition Participation

2016 1st Place Southern California Fly Off, Ranger
2015 3rd Place International MATE Competition;
1st Place Mission Scores, Ranger
2015 1st Place Southern California Fly Off, Ranger
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



Top Row (L→R): Lucas Allen, Joseph Arriola, Joshua Magid, Kraig Kreiner, Jeffrey Haag, Davis Dillenberg, Nicolas Kalem
Bottom Row (L→R): Casey Jo, Garret Smith, Brian Smalling, Eric Vaughn, John Robertshaw, Jordan Ewald, Max Ebling.

Photo: Lorraine Loh-Norris

The Sea Wolf

ROV Value: \$4250

Total Student Hours: 750

Primary Materials: Polypropylene, Acrylic,
Aluminum

Dimensions: Height-27 cm; Length-35 cm; Width-
46 cm

Safety Features: 25 Amp Fuse, Double O-Ring Seal,
Propeller Guards, All Sharp Objects Covered, Slight
Positive Buoyancy.

Special Features: Arduino Microprocessors, High
Capacity Seabotix BTD-150 Thrusters, Pololu
Motor Controllers, GoPro Hero 3+ Black Edition
Cameras

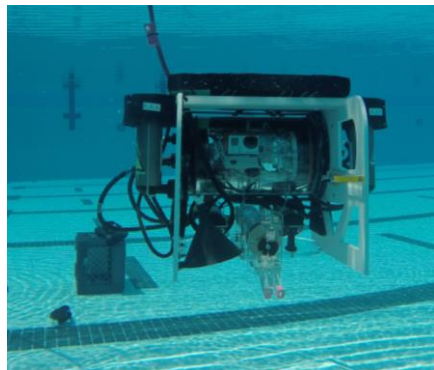


Photo: Casey Jo

2016 Ranger Team Organization

Joshua Magid: Chief Executive Officer, 3rd year, Class of 2017

Kraig Kreiner: President, Pilot, 4th year, Class of 2016

Lucas Allen: Chief Safety Officer, 4th year, Class of 2016

Brian Smalling: Pilot, System Designer, 2nd year, Class of 2018

John Robertshaw: Electrical Engineer, 4th year, Class of 2016

Casey Jo: Chief Financial Officer, 2nd year, Class of 2016

Max Ebling: Project Engineer, 2nd year, Class of 2016

Jordan Ewald: Mechanical Engineer, 1st year, Class of 2018

Jeffery Haag: Mechanical Engineer, 1st year, Class of 2018

Garret Smith: Mechanical Engineer, 1st year, Class of 2018

Nicolas Kalem: Mechanical Engineer, 1st year, Class of 2019

Davis Dillenberg: Electrical Engineer, 1st year, Class of 2019

Erik Vaughn: Electrical Engineer, 1st year, Class of 2019

Joseph Arriola: Mission Specialist Assistant, 1st year, Class of 2018