

Palos Verdes High School  
Palos Verdes Estates, California, USA  
Distance to Longmont, CO: 1726 km



## Palos Verdes High School (PVIT)

### History of MATE ROV Competition Participation

**2023:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2022:** 7<sup>th</sup> Place International MATE Comp, Ranger  
**2022:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2021:** 4<sup>th</sup> Place International MATE Comp, Ranger  
**2019:** 2<sup>nd</sup> Place Southern California Fly Off, Ranger  
**2018:** 2<sup>nd</sup> Place Southern California Fly Off, Ranger  
**2017:** 5<sup>th</sup> Place International MATE Comp, Ranger  
**2017:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2016:** 4<sup>th</sup> Place International MATE Comp, Ranger  
**2016:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2015:** 3<sup>rd</sup> Place International MATE Competition;  
1<sup>st</sup> Place Mission Scores, Ranger  
**2015:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2014:** 5<sup>th</sup> Place International MATE Comp, Ranger  
**2014:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2013:** 2<sup>nd</sup> Place Southern California Fly Off, Ranger  
**2012:** 2<sup>nd</sup> Place International MATE Comp, Ranger  
**2012:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2011:** Harry Bohm and Jill Zande Sharkpedo Award  
**2010:** 2<sup>nd</sup> Place Southern California Fly Off, Ranger



2023 PVIT ROV Company Photo: Braden Colli

Front, L→R: Andrew Moore, Annalia Henderson, Allison Yu, Cynthia Ho, Jenna Chow, Kharianna Gracie, Riko Negishi, Ruka Ito, Zachary Rapoport, Eto Uchiyama, Lisa Lininger

Back, L→R: Azalea Lurie, Benjamin Peters, Connor Byrne, Claudia Goldsworthy, Trevor Jones, Henry Argentieri, Skylor Sun, Payson Cai, Gavin Montgomery, Stuart Canario, Timothy Keroles

### 2023 Ranger Team Organization

Jenna Chow '23: President, 4<sup>th</sup> year  
Andrew Moore '25: CEO, Lead Electrical Engineer, Pilot, 2<sup>nd</sup> year  
Allison Yu '25: Chief Information Officer, Software Engineer, 2<sup>nd</sup> year  
Azalea Lurie '25: CSO, Mechanical Engineer, 2<sup>nd</sup> year  
Zachary Rapoport '25: CFO, 2<sup>nd</sup> year  
Cynthia Ho '23: Lead Design Engineer, 2<sup>nd</sup> year  
Lisa Lininger '24: CTO, Lead Mechanical Engineer, 2<sup>nd</sup> year  
Benjamin Peters '25: Lead Software Engineer, 2<sup>nd</sup> year  
Ruka Ito '26: Co- Lead Mechanical Engineer, 1<sup>st</sup> year  
Riko Negishi '23: Electrical Engineer, 3<sup>rd</sup> year  
Claudia Goldsworthy '23: Marketing and Information, 1<sup>st</sup> year  
Kharianna Gracie '23: Electrical Engineer, 2<sup>nd</sup> year  
Stuart Canario '23: Software Engineer, 1<sup>st</sup> year  
Skylor Sun '23: Mechanical Engineer, 2<sup>nd</sup> year  
Gavin Montgomery '24: Design Engineer, 1<sup>st</sup> year  
Timothy Keroles '24: Design Engineer, 1<sup>st</sup> year  
Eto Uchiyama '25: Design Engineer, 1<sup>st</sup> year  
Henry Argentieri '25: Mechanical Engineer, 1<sup>st</sup> year  
Annalia Henderson '26: Design Engineer, 1<sup>st</sup> year  
Connor Byrne '26: Mechanical Engineer, 1<sup>st</sup> year  
Trevor Jones '26: Mechanical Engineer, 1<sup>st</sup> year  
Payson Cai '26: Mechanical Engineer, 1<sup>st</sup> year



**Besh Lo**

Image:  
Cynthia Ho

**ROV Value:** \$5120; **2023 Spending:** \$3600  
**Total Student Hours:** 1200  
**Primary Materials:** Polypropylene, Acrylic, PVC, Epoxy  
**Dimensions:** Height-42 cm; Length-54 cm; Width 48 cm  
**Weight:** 10.4 kg  
**Safety Features:** 25 Amp Fuse, O-Ring Seal, Propeller Guards, Sharp Objects Protected, Gasket.  
**Special Features:** Arduino and Raspberry Pi Microprocessor, Blue Robotics T200 Thrusters, high-definition video, dual-positioned manipulator