

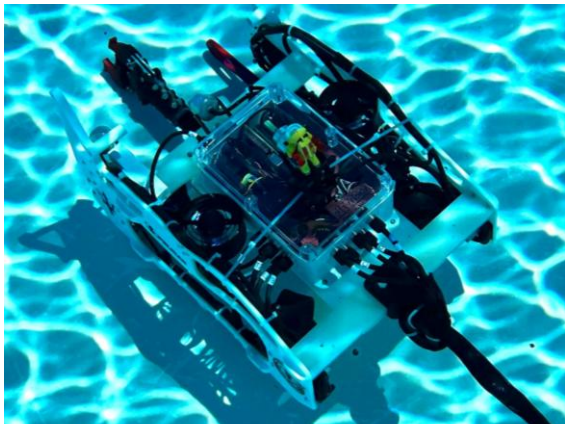
Palos Verdes High School  
Palos Verdes Estates, California, USA  
Distance to Alpena, MI: 2440 km

## Palos Verdes Institute of Technology (PVIT) Fitzgerald



### History of MATE ROV Competition Participation

**2024:** 10<sup>th</sup> Place MATE World Comp, Ranger  
1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2023:** 7<sup>th</sup> Place MATE World Comp,  
1<sup>st</sup> Place Technical Documentation, Ranger  
**2023:** 1<sup>st</sup> Place Southern California Fly Off, Ranger  
**2022:** 7<sup>th</sup> Place MATE World 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  
**2016:** 4<sup>th</sup> Place International MATE Comp, Ranger  
**2015:** 3<sup>rd</sup> Place International MATE Competition;  
1<sup>st</sup> Place Mission Scores, Ranger  
**2014:** 5<sup>th</sup> Place International MATE Comp, Ranger  
**2012:** 2<sup>nd</sup> Place International MATE Comp, Ranger  
**2011:** Harry Bohm and Jill Zande Sharkpedo Award,  
Ranger



*Fitzgerald ROV*

Photo By: Noah Kim

**ROV Value:** \$7,550

**Total Student Hours:** 1200

**Primary Materials:** Polypropylene, Acrylic, Carbon Fiber

**Dimensions:** 36 cm (Height), 65 cm (Length), 42 cm (Width)

**Weight:** 10.2 kg

**Safety Features:** 25-Amp Fuse, O-Ring Seal, Propeller Guards, Sharp Objects Protected

**Special Features:** Arduino and Raspberry Pi Microprocessor, Blue Robotics T200 Thrusters, High-definition video from 3 cameras, dual-positioned manipulator, fast propulsion, independent profiling float



2025 PVIT Fitzgerald Team Photo By: Julie Smalling

Back Row (L→R): Wesley Hsu, Kenneth Preston, Dean Choi, Noah Kim, Rayaana Jaffer, Nathan Dorfman, Madeline Lurie, Ayaan Chandak

Front Row (L→R): Ananya Balaji, Evie Poole, Hailey Lee, Anika Savai, Evalyn Yu, Hadley Schmitz, Daniel Chun, Andrew Moore

### 2025 Ranger Team Organization

Madeline Lurie '25: President, Electrical, 4th year

Andrew Moore '25: CTO, Pilot, 4th year

Rayaana Jaffer '26: CEO, 2nd year

Noah Kim '27: Lead Design Engr., Pilot, 2nd year

Dean Choi '27: CSO, Lead Float Engr., 2nd year

Evalyn Yu '28: CIO, 1st year

Hadley Schmitz '26: CFO, 1st year

Evie Poole '26: ESG Coordinator, 1st year

Nathan Dorfman '27: Master Scheduler, Design, 1st year

Kenneth Preston '28: Lead Software Engr., 1st year

Hailey Lee '26: Regulatory Affairs Coordinator, Diver, 2nd year

Ananya Balaji '27: Lead Mechanical Engr., Design, 1st year

Daniel Chun '28: Design, Mechanical, 1st year

Anika Savai '28: Software, 1st year

Wesley Hsu '28: Software, 1st year

Ayaan Chandak '28: Software, Mechanical, 1st year