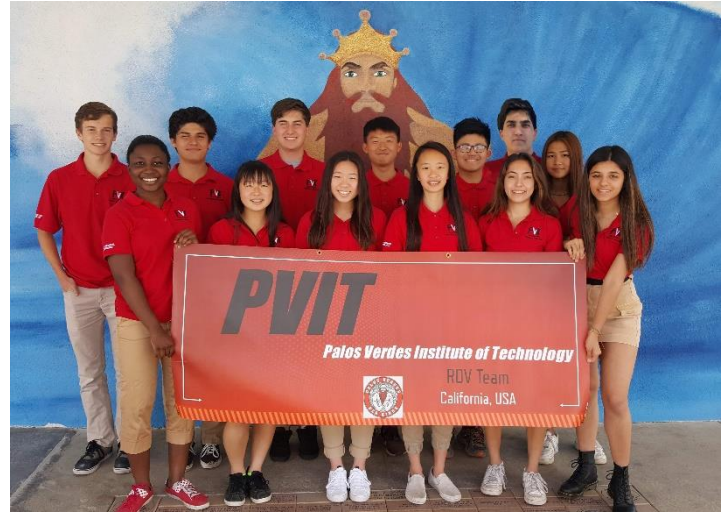




## Palos Verdes Institute of Technology (PVIT)

### History of MATE ROV Competition Participation

- 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, Ranger
- 2010:** 2<sup>nd</sup> Place Southern California Fly Off, Ranger



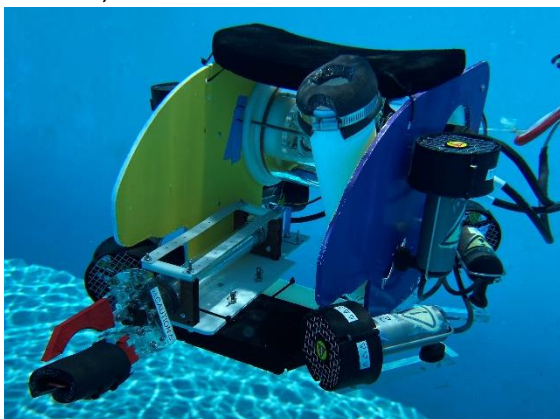
2020/2021 PVIT ROV Company

Front, L→R: Dara Chidi, Riko Negishi, Erika Yiu, Jenna Chow, Erin Magid, Sasha Chehr  
 Back, L→R: Matthew Smalling, Frankie Moore, Sammy Moore, Steven Guo, Zusan Huh, Armaan Jhangiani, Natalie Hong

Photo: Cheryl Oshiro

### Mamba

- ROV Value:** \$3,800
- Total Student Hours:** 1700 over 2 years
- Primary Materials:** Polypropylene, Acrylic, Delrin™
- Dimensions:** Height-33 cm; Length-67 cm; Width-48 cm
- Weight:** 12 kg
- Safety Features:** 25 Amp Fuse, O-Ring Seal, Propeller Guards, Sharp Objects Protected.
- Special Features:** Arduino Microprocessors, SeaBotix Thrusters, Pololu Motor Controllers, High Definition Video, GoPro Hero 3+ Black Edition, dual-positioned manipulator, Micro ROV with camera, collection device.



### 2020 Ranger Team Organization

- Dara Chidi '21: President, 4<sup>th</sup> year
- Armaan Jhangiani '21: Lead Electrical Engineer, 3<sup>rd</sup> year
- Sammy Moore '22: CEO, Lead Design Engineer, Pilot, 3<sup>rd</sup> year
- Sasha Chehrzadeh '22: Lead Programmer, 2<sup>nd</sup> year
- Erika Yiu '22: CSO, Mechanical Engineer, 2<sup>nd</sup> year
- Jenna Chow '23: CFO, Electrical Engineer, 2<sup>nd</sup> year
- Natalie Hong '23: Mechanical Engineer, 2<sup>nd</sup> year
- Zusan Hu '23: Mechanical Engineer, 2<sup>nd</sup> year
- Steven Guo '23: Mechanical Engineer, 2<sup>nd</sup> year
- Matthew Smalling '20: Mechanical Engineer, 5<sup>th</sup> year
- Francisco Moore '20: Design Engineer, 5<sup>th</sup> year
- Erin Magid '20: Electrical Engineer, 5<sup>th</sup> year

*Mamba* Image: Sammy Moore

