

**RETURNING TEAM:  
2ND YEAR  
PARTICIPATING  
IN MATE ROV  
COMPETITION**

**HOME**



Pasadena City College  
Pasadena, CA  
USA

**DISTANCE TRAVELED TO  
LONGMONT, CO**



1640 km

**DIMENSIONS**



Length: 66 cm  
Width: 46 cm  
Height: 37 cm

**ROV COST**



\$ 4035

**MASS**



10.5 kg

**BUILD TIME**



560 hours



**"HYDRA"**

**SPECIAL FEATURES:**

- High Density Polyethylene Frame(HDPE)
- Integrated Xbox Controller
- Mechanical Gripper
- Adjustable Camera Angle
- Object Detection
- Image Capture

**SAFETY FEATURES:**

- Custom 3D printed thruster shrouds
- Bottom-side kellogs strain relief
- Toggeable thrust power

**TEAM MEMBERS:**

David Tao | CEO | Safety Advisor| Aerospace Engineering | 3rd  
 Rene Nu ez | CTO| Electrical Lead | Electrical Engineering | 2nd  
 Barozh Smail | COO | Mechanical Lead | Mechanical Engineering | 3rd  
 Jan Pastor | Software Lead | Electrical Engineering | 4th  
 Jocelyn Zhu | Marketing Manager | Computer Science | 1st  
 Martin Leung | Budget Officer| Mechanical Engineering | 1st  
 Frank Alas | Mechanical Engineer | Aerospace Engineering | 3rd  
 Pete Chayapirad | Mechanical Engineer | Mechanical Engineering | 2nd  
 Jasmine Lai | Mechanical Engineer | Mechanical Engineering | 2nd  
 Joya Stewart | Mechanical Engineer | Mechanical Engineering | 2nd  
 Thet Paing/David | Software Engineer | Electrical Engineering | 1st  
 Puthyrath/Ben Hy | Software Engineer | Mechanical Engineer | 1st  
 Daniel Weiss | Software Engineer | High School Mentee | HS  
 Adam Ashcroft | Software Engineer | High School Mentee | HS  
 Megan Ashcroft | Electrical Engineer | High School Mentee | HS  
 Brycen Lee | Electrical Engineer | Electrical Engineering | 2nd  
 Sabrina Maya | Electrical Engineer | Computer Software | 3rd

**MENTORS & ADVISORS**

Jared Ashcroft, Yu-Chung Chang-Hou,  
 Thomas Thoen, Doug Foster, Scott Fraser,  
 Dave Smith, Jacob Tucker, Eamon Conklin

