HEPHAESTUS ROBOTICS

# COMPANY SPEC SHEET

TEAM BACKGROUND

Photo Credit: Reynaldo Barrioz
Top Row (L to R): Lauren Potts (float), Nate Hofmann (sensors), Evelyn Potts (float), Matthew Hofmann (float), Blaise Benoit-Corey (software engineer), Max Chen (VP of software, safety), Bennet Menzer (CTO, VP of Engineering), Ben Hillard (CEO), Uriel Martinez-Uribe (VP of float), Kai Herbst (VP of software, scheduling), Orlando Cazales (sensors)
Bottom Row (L to R): Daniel Fernandez (COO, VP of fundraising), Nami Brown (CFO), Olivia Chen (Sensors), Sophia Casaletto (data analysis)
Not Pictured: Kaden Collier (float), Autumn Feather (PCB engineer), Julia Guth (float), Izaak Ocampo (topside), Kaden Ortiz (float), Josiah Staley (topside), Amber Williams (float), Cole Williams (software)
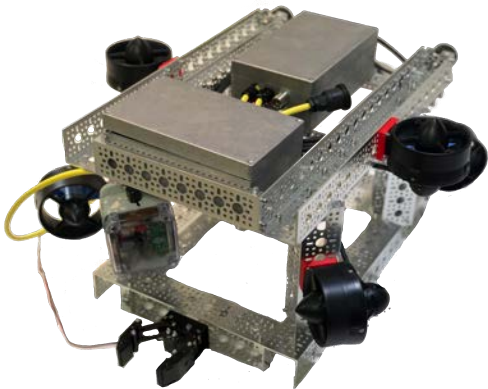
Company Name:
Hephaestus Robotics
Organization Name: X Academy
Location: Santa Cruz, CA USA
Distance traveled to Competition: 4002 km
History : Fourth year competing in MATE. Team first competed in the 2020-21 season and placed 7th in the Telepresence Category at the World Championship. Competed the next year in the 2021-22 season and placed 3rd regionally. Competed in 2022-23 and placed 5th at the world championship in Longmont, CO.
Grades and Schools Represented: 9th-12th grade, 11 schools - Kirby, Pacific Collegiate, Santa Cruz High, Pajaro Valley High, Scotts Valley High, San Lorenzo Valley High, Aptos High, St. Francis High, Soquel high, Diamond Tech Institute, Watsonville High

TALOS IV SPECIFICATIONS

ROV Name: Talos IV
Total Cost: $6,574
Weight: 9.3kg
Dimensions (LxWxH): 50 cm x 53 cm x 32 cm
Tether Length: 15m
Student Hours: 1500 hrs
Safety Features:
Strain relief, neat wiring, 3D printed shrouds on thrusters, 25A fuses, watertight compartments, valves for pressure testing, labels, pressure and leak sensors, 3D printed caps on sharp edges.
Special Features
Photogrammetry software, custom PCBs, on-board Ethernet switch, five on-board Raspberry Pi computers, video & control signals over IP network.
Photo Credit: Kai Herbst