



WATSONVILLE FIREFIGHTERS

SEAL TEAM 1272

Because fortune favors the brave.

Watsonville, CA 95076
111.5 Kilometers from International Competition
8th and 9th Graders
Established 2014
Regional Winners 2016 and 2017

MEMBERS

Chief Executive Officer (CEO)
Chief Financial Officer (CFO)
Chief Technical Officer (CTO)
VP of Electrical Engineering
VP of Marketing
VP of Mechanical Engineering
VP of Research and Development
VP of Software
VP of Safety Engineering
General Council
Mentor
Mentor

Chris Whaley, 3rd Year
Sun Woo Da Costa, 3rd Year
Jamie Walton, 3rd Year
Keegan Martin, 3rd Year
Pratham Rathi, 3rd Year
Katherine Walton, 3rd Year
Amelia Lovell, 2nd Year
Jacob Sandler, 3rd Year
Jordan Chin, 2nd Year
Cameron Barrett, 2nd Year
Victor Da Costa
Mary Seamount



Top: Side view of the Argo IV. Middle: A 500 gph motor with a shroud for safety. Bottom: The Argo IV, the monitor and control box, and the second monitor.

ROV SPECIFICATIONS

Name: Argo IV
Weight: 3.1 kg
Tether Length: 10 meters
Cost: \$1013.57
Dimensions: 34 cm in height; 27 cm in width; 40 cm in length.

Speed: 0.6 m/s
Acceleration: 0.07 m/s²
Work Hours Spent per Person: 80

Special Features: 3D-printed claw, easily distributable weight, specially programmed up- and down-motor.

Electrical Specifications:

*Idle Power*¹: 0.8A; 12.3V; 9.7W
*Full Power*²: 14.8A; 12.3V; 182 W

Safety Features: Cover around propellers, rounded edges, strain relief on both ends of the tether, neat wiring.

¹Idle power means that claw is energized but open, monitors are on, propellers are idle, and LED is off.

²Full power means that all of the motors are running at full speed, jaw is clenched, LED is on, and the claw is rotating.