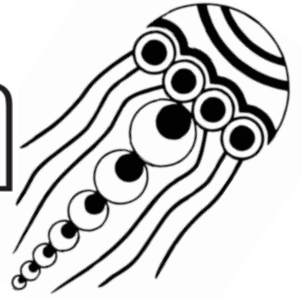


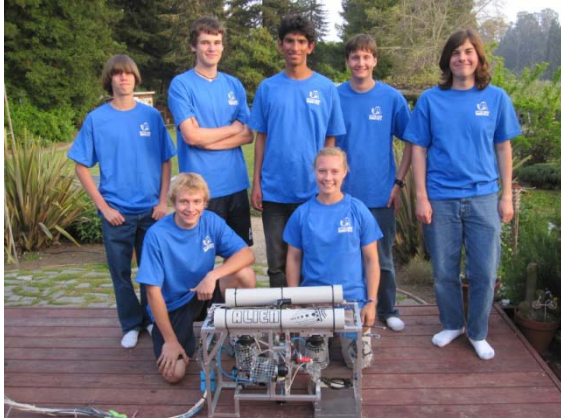


Aptos High School
100 Mariner Way
Aptos, CA 95003

MARINERS
ALIEN



Team Name: Aptos Mariners – Alien!
Home State: California
Distance Travelled: 3740 Kilometers
Competition History: “New”! This is our first time in the International Competition. We have participated in the Regional Contest in Monterey, CA, for three years.



Nathaniel Willy – Video & Software Engineer (10th Grade)
 Isaac Cassar – Lead Structural Designer (11th Grade)
 Connor Munger – Captain & Pilot (11th Grade)
 Mobin Skaria – Research & Development (11th Grade)
 Breana Kostreba – Audio Engineer (11th Grade)
 Adam Simko – Electronic Peripherals Specialist (11th Grade)
 Justin Lardinois – Structure & General Projects (11th Grade)
(L to R) Nathaniel Willy, Isaac Cassar, Connor Munger, Mobin Skaria, Breana Kostreba, Adam Simko, Justin Lardinois

ROV SPECS

ROV Name: The Alien!
Total Cost: Real Expenses \$2,037.75 Donated Goods \$422.00 Total Cost \$2,459.75
Primary Material: Aluminum Angle
Dimensions: Length - 82cm Width - 54cm Height – 55cm
Weight: 11.33kg
Speed: Horizontal Speed – 0.588 m/sec. Vertical Speed – 0.75 m/sec.
Safety Features: Steel Mesh Cages around all motors, All edges sanded smooth, 25 amp Fuse inserted between battery and electrical box, emergency shut off switch, reverse polarity diode for the power leads, clean and neat wiring.
Special Features: Advanced control system that utilizes an Xbox 360 game controller, pneumatically controlled arm and claw, two hydrophones to allow stereo sound, utilization of a thermistor which allows for the correlation of resistance to temperature using a multimeter, custom built coring device to collect bacterial mat samples.

