North Paulding High School Robotics

The future in ROV design

300 N Paulding Drive, Dallas GA 30132

2,179 miles from Long Beach City College in Long Beach California, USA.

Company Employees:

-Michael Lees 5th Year CEO, Electrical Engineer
-Nick Garber 5Th Year Head Programmer
-Nick Revelos 4th Year Electrical Engineer
-Reece Houk 4th Year Mechanical Engineer
-Bryce Rodriquez 3rd Year Head Mechanical Engineer
-Ben Buzzelli 3rd Year Mechanical Engineer
-Arthur Lynn 3rd Year Head Designer
-Glen Lewis 3rd Year Head Electrical Engineer
-Matthew Stephens 3rd Year Mechanical Engineer
-Tanner Highfield 2nd Year Programmer
-Luke Garber 1st Year Programmer
-Zoe Hood 1st Year Electrical Engineer

ROV Features:

-Dimensions: 36.5cm x 33.5cm x 25.3cm
-Weight: 6.4 Kg
-Material: Aluminum metal
-Total cost of ROV: $6,448.48

Safety Features:

-25 Amp fuse within 30cm of power on positive line, main power shutoff switch
-Cords secured to frame
-Thrusters encased in protective housing
-All compounds waterproofed
-Warning labels on all moving parts
-Strain relief on tether and control box

Special Features:

-Custom Aluminum frame
-4 Seabotix and 2 T200 thrusters
-Rotating Camera
-Valve Rotator
-A.G.A.R. Suction Cup
-Measuring Sensor
-Custom built manipulator
-Raman Simulating Light

History of Company:

- 1st Year competing at Internationals, Long Beach CA
- 5th Year competing in MATE Gray's Reef Competition
-Placed 1st in 2017 MATE Gray's Reef Regional
-Placed 2nd in 2016 MATE Gray's Reef Regional
-Time spent building: ~6 hours per week
-Time spent in the pool: ~4-5 hours per week