



North Paulding High
School
Dallas, GA, USA



North Paulding Robotics Members 2017-2018

Company:

Michael Lees 4th Year CEO, Electrical Engineer

Nick Garber 4th Year, Head Programmer

Nick Revelos 3rd year, Electrical Engineer

Reece Houk 3rd Year, Mechanical Engineer

Bryce Rodriguez 3rd Year, Head Mechanical Engineer

Ben Buzzelli 2nd Year, Electrical Engineer

Glen Lewis 2nd year, Head Electrical Engineer

Matthew Stephens 2nd Year, Mechanical Engineer

Tanner Highfield 2nd Year, Programmer

Zoe Hood 2nd Year, Programmer

Jason Perez 1st Year, Mechanical Engineer

Ben Skowronski 1st Year, Mechanical Engineer

Anthony Robinson 1st Year, Mechanical Engineer

Brighton Allen 1st Year, Mechanical Engineer

Trey Lowe 1st Year, Mechanical Engineer

Mentors: Geoff Gardener, Nicola Lees, Mark Lewis

History of Company

- Competed in 2017 MATE International Competition at Long Beach, CA
- 6th year competing in MATE Gray's Reef Regional
- Placed 1st in 2017 MATE Gray's Reef Regional
- Placed 2nd in 2016 MATE Gray's Reef Regional

NORTH PAULDING ROBOTICS

“The future developers in ROV design”



Distance Traveled: 4200 km to International competition

ROV Total Cost: \$3,329.66

Working Hours: 576 hours.

ROV Features

- Dimensions: width 55 cm, height 44 cm
- Weight: 12 kg
- Materials: Aluminum metal, 3D printed plastic filament

Safety Features

- 25 Amp fuse within 30 cm of power on positive line, Main power shut-off switch
- Cords secured and tucked away into the frame
- All compounds are waterproofed
- 3D printed guards on all thrusters
- Warning labels on all moving parts
- Emergency shut off relay if water is detected in housing
- Strain relief at both ends of tether

Special Features

- Custom Aluminum
- 4 Seabotix thrusters
- Rotating camera
- Depth sensor
- Modified tape measure
- Custom built manipulator
- OBS sound emitter
- Onboard electronics
- Custom built air bag inflator