

NORTH PAULDING ROBOTICS

North Paulding High School 300 N Paulding Drive Dallas, GA 30132



HISTORY OF COMPANY

- ► 1st place in the 2019 MATE Gray's Reef Southeast Regional Competition, Savannah, GA
- ► 7th place in the 2018 MATE International Competition held in Federal Way, WA
- ▶ 1st place in the 2018 MATE Gray's Reef Southeast Regional Competition, Savannah, GA
- ► 12th place in the 2017 MATE International Competition held in Long Beach, CA
- ► 1st place in the 2017 MATE Gray's Reef Southeast Regional Competition, Savannah, GA
- ➤ 2nd place in the 2016 MATE Gray's Reef Southeast Regional Competition, Savannah, GA

DISTANCE TRAVELED: Dallas, GA to Kingsport, TN 505 km to MATE International Competition in Kingsport, TN

ROV TOTAL COST: \$5,087.62

WORKING HOURS: 576 hours

ROV FEATURES

- ▶ Dimensions: width 58cm, height 35cm, length 40cm
- ▶ Weight: 15kg
- ▶ 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 frame
- 4 Seabotix thrusters
- Rotating camera
- Metal Detector sensor
- Custom built manipulator
- Onboard electronics
- Custom built buoyancy tanks

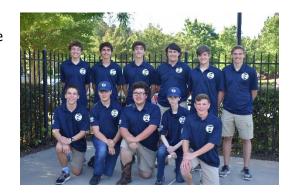
COMPANY MEMBERS

Bryce Rodriguez
Brighton Allen
Tanner Highfield
Glen Lewis
Ben Buzzelli
Ryan Testino
Zoe Hood
Anthony Robinson
Jason Perez
Trey Lowe
Ben Skowronski

CEO & Electrical Engineer, 4th year, Senior
Head of Programming Team, 2nd year, Sophomore
Head of Mechanical Team, 3rd year, Junior
Head of Electrical Team, 3rd year, Junior
Electrical Engineer, 3rd year, Junior
Mechanical Engineer, 1st year, Sophomore
Mechanical Engineer & CFO, 3rd year, Junior
Mechanical Engineer, 2nd year, Sophomore
Mechanical Engineer, 2nd year, Sophomore
Mechanical Engineer, 2nd year, Sophomore

Design Engineer, 2nd year, Sophomore

Mentors: Nicola Lees, Geoff Gardener, Mark Lewis, Justin Loomis



"The future developers in ROV design"

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MICRO-ROV DOCUMENTATION