



Whaletechrobotics@gmail.com  
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 North Paulding High School, 300 N Paulding  
 Drive, Dallas, Ga. 30132 USA  
 458 KM traveled to the MATE World  
 Competition, Kingsport, TN

# WhaleTech Robotics

North Paulding High School



## Whale IV

### ROV SPECS

Cost: \$5,800  
 Dimensions: 36 cm Tall, 62 cm Long,  
 46.5 cm Wide  
 Weight: 13.1 kg  
 Design/build Time: 500 Hours  
 Materials: HDPE Frame, PLA 3D Prints,  
 Acrylic Cylinder

### ROV SAFETY & FEATURES

- All aspects are waterproof
- Custom 3D printed thruster shrouds
- Warning labels on all moving parts
- Tether restraints on ROV & surface box
- 25-amp fuse with within 30cm of positive power input
- Custom 3D printed claw tilt w/ reduced pinch points
- Custom Designed CNC Frame
- Onboard electronics housing system
- Three ExploreHD underwater cameras

### ABOUT US

WhaleTech Robotics was established in 2017 by a group of students from North Paulding High School. Our team members have been building and competing in ROV competitions since 2017. Ranging from freshman to seniors of North Paulding High School. We are excited to be participating in the 2024 MATE ROV World Competition.

### MEET THE TEAM

4-Years (12 <sup>th</sup> )	Michaella Hopfner	CEO, Electrical Engineer
4-Years (12 <sup>th</sup> )	Garrett Lanham	CFO, Mechanical Engineer
4-Years (12 <sup>th</sup> )	Gavin Osterloh	Mechanical Engineer
3-Years (12 <sup>th</sup> )	Graham Joonsar	Software Engineer
3-Years (11 <sup>th</sup> )	Tyler Pold	Mechanical Engineer
3-Years (11 <sup>th</sup> )	Jacob Banta	Software Engineer
2-Years (10 <sup>th</sup> )	Ian Osterloh	Mechanical Engineer
1-Year (6 <sup>th</sup> )	Connor Leache	Engineer in Training

### COMPETITION HISTORY

- 2024, 2023, 2022, 2021, 2019, 2018, 2017 1st Gray's Reef MATE Southeast competition
- 2023 3rd Place MATE RANGER International Competition
- 2022 4th place MATE EXPLORER International Competition
- 2021, 1st Place MATE RANGER International Competition
- 2018, 7th Place in MATE RANGER International Competition

