

WhaleTech

'THE WHALE II'

Building a brighter future with ROVs

INFO

Company: WhaleTech Robotics
School: North Paulding High School
300N Paulding Drive, Dallas, Ga, USA
whaletechrobotics@gmail.com
3509 km traveled from home to Long

COMPETITION HISTORY

2016, 2017, 2018, 2019, 2021 Gray's Reef MATE Southeast Regionals

2017, 2018, 2019, 2021 Gray's Reef MATE Internationals

OUR TEAM

Jason Lees (CEO, Lead Engineer, 12th grade)

Andy Griggs (Marketing, Elec. Engineer, 12th grade)

Graham Joonsar (Software Engineer, 10th grade)

Drew Boles (Mechanical Engineer, 11th grade)

Tony Brozowski (CFO, Mechanical Engineer) 12th grade)



Figure 1: WhaleTech Robotics Company Picture

ROV INFORMATION

Name: The Whale II

Dimensions: width 32cm, height 20.5cm, length 35cm

Weight: 8.77 kg

Total Cost: \$4,304.29

Working Hours: 576 hours

SPECIAL FEATURES

- Custom aluminum frame
- Modular system
- Two cameras
- Custom 3D printed manipulator
- Onboard Electronics
- Bulgin connectors



Figure 2: ROV frame showing Bulgin connectors.

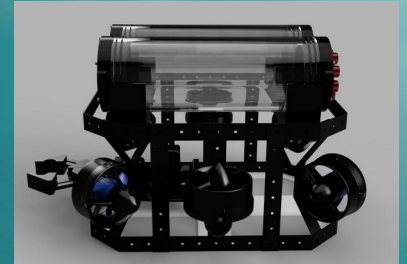


Figure 3: Our ROV—The Whale II

SAFETY PRECAUTIONS

- 30A fuse within 30 cm of power on positive line
- Main power shut-off switch
- All aspects are water-proofed
- Custom 3D printed thruster guards
- Warning labels on all moving parts

BULGIN CONNECTORS

This year we challenged ourselves by using the Bulgin waterproof connectors

They allow us to have a completely disconnectable tether and electrical housing