Kraken Tech Robotics

Mission statement:
We exist to create the solutions where our oceans waters can be clean, healthy, and sustainable.

Company members:
Cohen Busby Electrical Engineer, 9th grade, 1st Year competing in Ranger
Jacob Banta Software Engineer, 9th grade, 1st Year competing in Ranger
Tyler Pold Mechanical Engineer, 9th grade, 1st Year competing in Ranger
Ben Perez Mechanical Engineer, 9th grade, 1st Year competing in Ranger
Ian Osterloh Software & Electrical Engineer, 8th grade, 1st Year competing Ranger

ROV Features:
- ROV Name: The Kraken
- Dimensions: width 25cm, height 29cm, length 46cm.
- Materials: PVC sheeting
- Weight: 1.47 Kg

Special features
- Custom CNC frame
- Custom manipulator
- Adjustable buoyancy

Mate History
1st year competing in the MATE Ranger Regional Competition.
1st place in the 2020 MATE Gray’s Reef Southeast Regional Navigator Division Competition, Savannah, GA
1st place in the 2019 MATE Gray’s Reef Southeast Regional Navigator Division Competition, Savannah, GA
1st place in the 2018 MATE Gray’s Reef Southeast Regional Navigator Division Competition, Savannah, GA

Distance Traveled
We traveled 3511.5 km from origin to Long Beach, CA to compete in the MATE 2022 World competition.

Total hours to build: 432 hours
Total Cost of ROV: $1689.72

Company Information
Name: Kraken Tech Robotics
School: North Paulding High School
Address: 300N Paulding Drive, Dallas, Ga, 30132
Website: Krakentech.weebly.com

Safety Features
- Fuse within 30 cm of power on positive line
- Main power shut-off switch
- All components are waterproofed
- 3D printed custom shrouds on thrusters
- Warning labels on all moving parts
- 25A fuse within 30 cm of power on positive line
- Main power shut-off switch
- All components are waterproofed
- 3D printed custom shrouds on thrusters
- Warning labels on all moving parts
- Strain relief on control box and ROV side

Figure 1: The Kraken
Figure 2: Company photo Kraken Tech Robotics