



# Kraken Tech Robotics

## **Mission statement:**

***We exist to create the solutions where our oceans waters can be clean, heathy, and sustainable.***

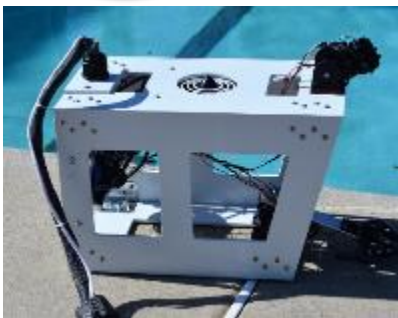


Figure 1: The Kraken

## **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

## **Company Information**

**Name:** Kraken Tech Robotics

**School:** North Paulding High School

**Address:** 300N Paulding Drive,  
Dallas, Ga, 30132

**Website:** Krakentech.weebly.com



Figure 2: Company photo Kraken Tech Robotics

## **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**

1<sup>st</sup> year competing in the MATE Ranger Regional Competition.

1<sup>st</sup> place in the 2020 MATE Gray's Reef Southeast Regional Navigator Division Competition, Savannah, GA

1<sup>st</sup> place in the 2019 MATE Gray's Reef Southeast Regional Navigator Division Competition, Savannah, GA

1<sup>st</sup> 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 members:**

Cohen Busby	Electrical Engineer, 9 <sup>th</sup> grade, 1 <sup>st</sup> Year competing in Ranger
Jacob Banta	Software Engineer, 9 <sup>th</sup> grade, 1 <sup>st</sup> Year competing in Ranger
Tyler Pold	Mechanical Engineer, 9 <sup>th</sup> grade, 1 <sup>st</sup> Year competing in Ranger
Ben Perez	Mechanical Engineer, 9 <sup>th</sup> grade, 1 <sup>st</sup> Year competing in Ranger
Ian Osterloh	Software & Electrical Engineer, 8 <sup>th</sup> grade, 1 <sup>st</sup> Year competing Ranger