



# Pensacola Catholic High School, Pensacola FL USA

## Crubotics Ranger, 8th Year Team

Distance to MATE Worlds, Kingsport, TN 600 miles

Brandon Hoppe | 12 | CEO, Pilot, 3<sup>rd</sup> yr\*\*  
Nicole Peterson | 12 | Safety Officer, 2<sup>nd</sup> yr\*\*  
Carsyn Neff | 11 | Marketing, 1<sup>st</sup> year\*  
Aloysius London | 11 | COO, 2<sup>nd</sup> Yr\*\*  
Mac McKinley | 11 | Lead Engineer, 3<sup>rd</sup> yr\*\*  
Grant Robertson | 12 | BGC Float, Lead, 3<sup>rd</sup> yr\*\*  
Caleb Bobe | 10 | Lead Programmer, 2<sup>nd</sup> yr\*\*  
Dylan Nguyen | 10 | Programmer, 1<sup>st</sup> yr\*  
Lucas Kasianov | 11 | Electrician, 1<sup>st</sup> yr\*  
Nate Flores | 12 | BGC Float, 2<sup>nd</sup> yr\*  
Frederick Strawitch | 12 | BGC Float, 1<sup>st</sup> yr\*  
Luke Foster | 11 | Float Engineer, 3<sup>rd</sup> yr\*\*  
\*New Member \*\*Returning Team member



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### ROV Specifications: Compact Aquatic Tool (C.A.T.) - 5

Total Cost: \$4872.72

#### Measurements:

- Size: 602mm x 395mm x 440mm
- Mass: 13.3 kg

Total Employee Hours: 1010 hrs

#### Safety Features:

- Tether: Strain Relief; Waterproof Connections;
- Enclosure: Pressure Relief Valve; Leak Sensor
- Control Box: Power "Kill" Switch; Quick Disconnects;
- Propeller: Shrouds on Front and Back

#### Special Features:

- Strafing capability (45° Thrusters);
- Tilt Camera;
- Mechanical Gripper; Stationary hook
- Cat 5 Coms for Camera, Navigation, and Gripper Manipulation
- Low light LED for extra visibility

