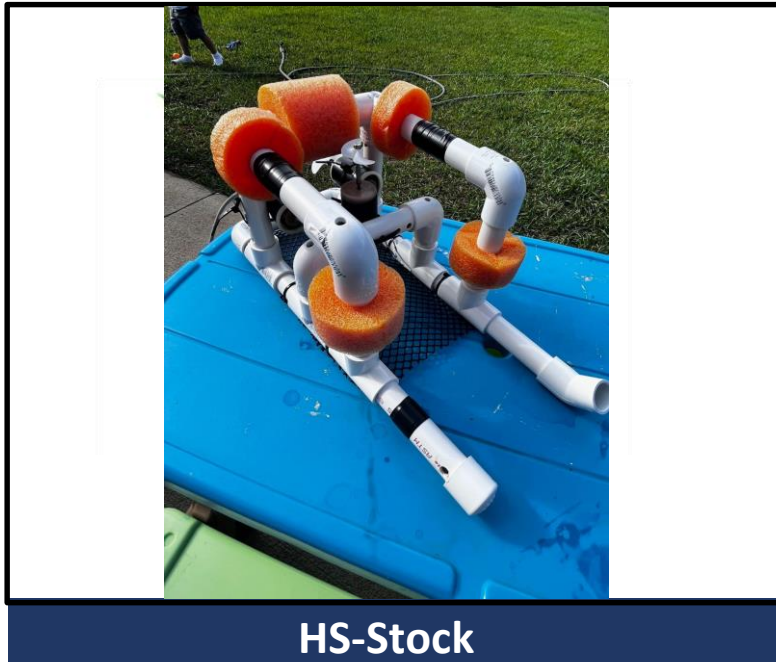


# Rehobeth High School NJROTC

Rehobeth High School - Rehobeth, Alabama



HS-Stock

- 1 Years participating in SeaPerch
- 1 Times at the International SeaPerch Challenge

## Our SeaPerch is unique because: (100 words MAX)

We chose to have two arms for our submersible, because we noticed during testing that having two arms provides better balance when picking up objects. We differed the arms to provide options when picking up and transporting objects. Each arm also has an end cap as a safeguard to prevent objects from falling off when maneuvering the ROV, which will help us avoid losing valuable time on the mission course.

## SeaPerch Design Overview: (100 words MAX)

We have successfully built an ROV that is designed to be maneuverable and swift underwater. We added arms to the robot, and also made the robot slightly positive in buoyancy to counteract the additional weight when transporting objects. The arm with the angled cap is designed to pick up objects that have sunk down in an awkward angle or require extra ROV maneuvering. The angled end cap is also used to pick up heavier objects. The arm with the basic end cap is designed to pick up lighter objects and those that need more precise placement after transportation.

## Our biggest takeaway this season is: (100 words MAX)

Since we are the first cadets in our school's Navy JROTC program to ever compete in not only a SeaPerch competition but any STEM-related event, we learned that hard work and teamwork were the key ingredients to our team's early success. We feel blessed to qualify for the International Challenge at our first full competition, and we are proud to have paved the way for future Rehobeth cadets to experience STEM competitions which, starting as early as next year, will include drone meets.