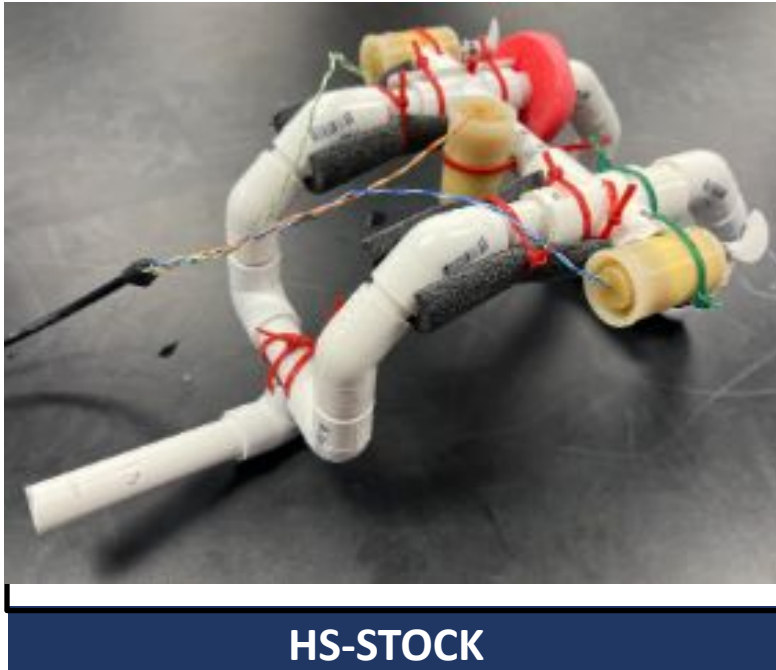


BAArden Bellas

Lacey Township High School, Lanoka Harbor, NJ, US



- 3 Years participating in SeaPerch
- 2 Times at the International SeaPerch

Challenge

Our SeaPerch is unique because: (100 words MAX)

Our ROV is unique because of its trapezoid-esque shape. This shape utilizes additional pieces, such as 45° elbow connectors, not typically included in the standard SeaPerch kit. The trapezoid design enables the SeaPerch to quickly cut through the water and minimize drag while in motion. This design and the parts being utilized sets us apart with a highly functioning and effective ROV.

SeaPerch Design Overview:

 (100 words MAX)

The SeaPerch design was based on a trapezoidal shape for the frame design. While our hook's design and placement moved, we landed on a small hook protruding from our front crossbar. Our motors are centrally located across our design with the vertical motor being placed dead center and the forward/backward motors being bumped out and attached parallel to the frame to ensure no interference when in use. Flotation is utilized to ensure an even distribution of mass while also enabling swift movement through the water.

Our biggest takeaway this season is:

 (100 words MAX)

Our biggest takeaway this season is that even though we have experience, engineering is an unpredictable thing and we should always expect the unexpected by having a backup plan on hand. Additionally, this season we had fewer teammates contributing to the SeaPerch construction and learned the importance of effective teamwork and communication along with time management to handle the same issues with fewer people available to contribute.