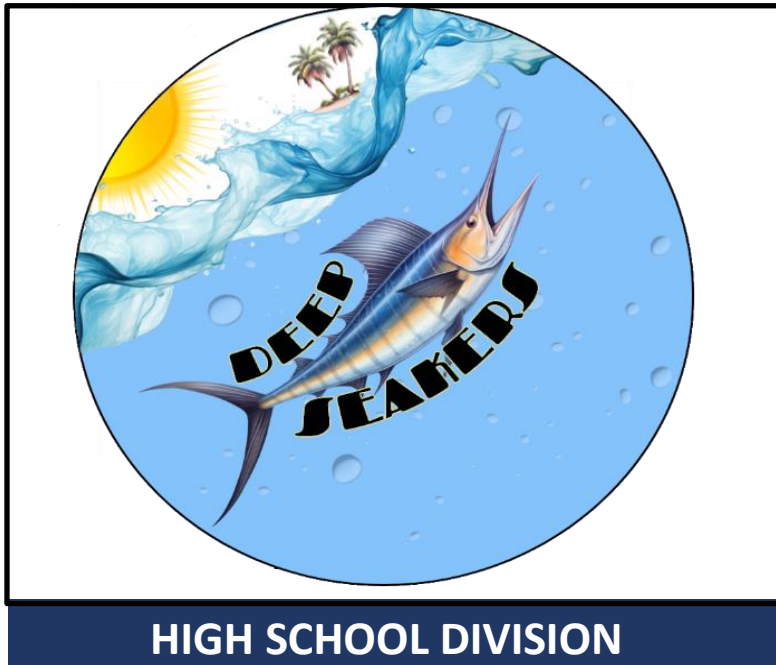


## Deep Seakers

Florida Atlantic University Highschool



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

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

Our SeaPerch was built based on overall utility rather than the focus on one particular aspect. With a small and light frame of CPVC for speed, two hooks close to its interior to balance center of mass, and an innovative motor pointing downward to carry heavy objects despite its small size, our Seaperch thrives as an all-rounder, fully utilizing its enhanced abilities to complete the necessary courses.

### **SeaPerch Design Overview:** (100 words MAX)

To utilize our resources to its limit while creating an aerodynamic frame, we designed our frame to be a continuous CPVC, minimizing weight and size. Although a continuous pipe would normally limit our options when it comes to frame making, we based the frame of the shape of a tear-drop to maximize speed for a fast completion of the obstacle course. To compensate for the uneven distribution of weight that the shape of the frame would provide, we put more foam at the back of our ROV, stabilizing movement and eliminating any form of tilting.

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

Throughout the season, we learned the significance of cooperation when it comes to building an effective ROV. With multiple people working on one project, we were able to possess multiple different perspectives on every aspect of our ROV, covering any drawback it could have. As we built our teamwork upon each of our prototypes, we were able to amalgamate the strengths our ROV possessed into its current form and remove the drawbacks that was holding it back. Our collaboration was a major contributor to the efficiency of our ROV.