USS Enterprise

USNSCC, San Diego, CA, USA

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

Our SeaPerch is unique because: (100 words MAX)
Streamline, U-shape for maximum hydrodynamic. It consists of removal modular components (motors). This allow the ROV to quick alter its physical shape to tackle speed-focused Obstacle course OR to maneuverability-required Mission course. In addition, the modular components are easily removed and replaced within 15 min to minimize down time.

Our biggest takeaway this season is: (100 words MAX)
It’s fun learning and designing our own Seaperch. The Engineering Design Process is a good framework to use when solving a problem. Driving the ROV under water is very hard due to refraction. However, the more practice we have, the better we will become at driving our Seaperch.

SeaPerch Design Overview: (100 words MAX)
1. Streamline, U-shaped ROV
2. Modular components
   a) 3 motors which can be replaced for quick repair
   b) Hook arrangement (deployed for Mission Course)