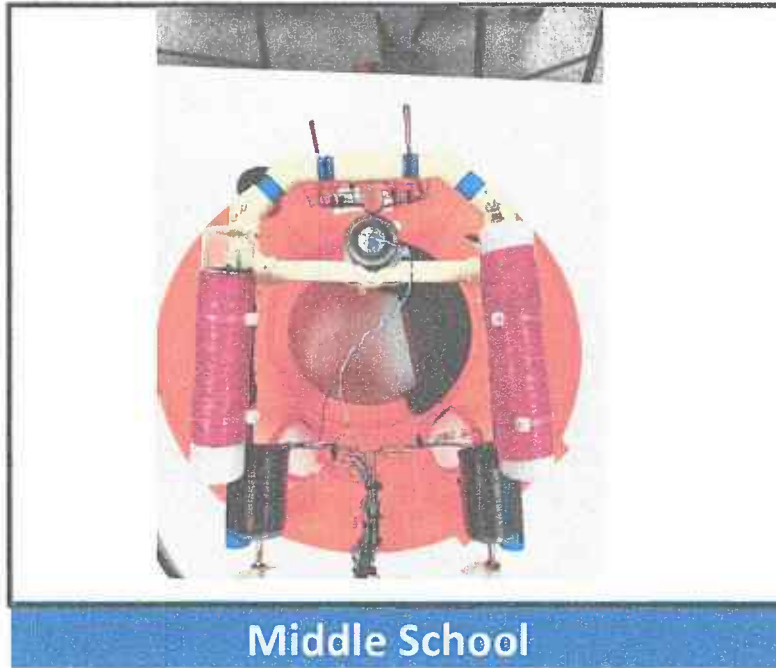


Enforcers MS



EHT PAL | Egg Harbor Township New Jersey, USA



- 11 Years participating in SeaPerch
- 9 Times at the International SeaPerch

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

Our SeaPerch is unique on several levels. Our adjustable non-compressible flotation provides us the ability to change flotation as needed. We placed our vertical motor adjacent to the nose so that we have better pitch control and our ROV swims more like a fish. Our thrust motor location gives us the best yaw control. We utilized CPVC and PEX pipe to decrease our weight. We utilized metal wire as a tether management system, which prevents the tether from getting tangled in the motors. Our nose utilized metal wire to make an adjustable hook, with nail polish on it for visibility.

SeaPerch Design Overview: (100 words MAX)

Our remotely operated vehicle (ROV) was designed with speed and maneuverability in mind. It was made from a combination of CPVC and PEX, with metal wire utilized for two purposes, the nose and tether mount. The nose is a U shape, slightly angled, and the tether mount is a T shape. The body is reminiscent of the Starship Enterprise, having a triangular front with two protruding ends that house the thrust motors. Our uppy-downy (vertical) motor is placed strategically towards the front, increasing pitch and making it easier to control. The body shape allows for better hydrodynamics and less drag.

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

The most important things that we learned this season as a whole are key skills that we will use for the rest of our lives. Those skills include, working with power tools, accepting others' ideas and criticism, not talking over each other, presenting ideas, and most importantly, teamwork. We would have never made it all the way to internationals if we had argued with each other all the time. We started this year as a group of individuals, but we will exit as a cohesive team all working toward the same goal.