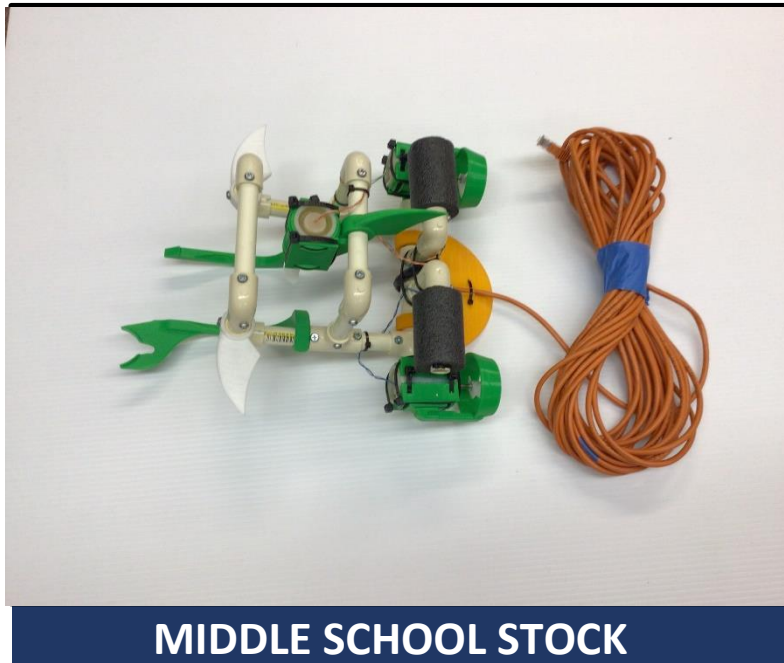


HydroDynamics

Gateway School District



MIDDLE SCHOOL STOCK

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

Our SeaPerch is unique because: (100 words MAX)

Our SeaPerch this year has many unique features setting it apart from others. We built our ROV from CPVC, reducing its weight and increasing its speed. Utilizing Autodesk Inventor, we 3D modeled and printed custom hooks to lift and transport all objects. We also designed pectoral, dorsal, and tail fins to enhance stability. Additionally, we made motor mounts to ensure consistent motor placement, as well as attachable kort nozzles to streamline waterflow and protect the propeller blades. With our novel and effective design we hope to achieve victory.

SeaPerch Design Overview: (100 words MAX)

Throughout this SeaPerch season we utilized the EDP to build and develop our unique ROV. It helped us analyze issues we were experiencing with our ROV, as well as letting us innovatively improve its design. Working together as a team to bounce ideas off of each other also helped our team massively. Every day, we made a checklist of what to do and we split up the work to get as much done as possible. Things we didn't finish the day before we moved to the next day's checklist. All in all, in conjunction with the EDP, our team worked very well together to achieve a very innovative ROV design.

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

Our biggest takeaway this season is to work hard from the start and not procrastinate. We believe that after all, although our ROV was great, there was much room for improvement. Booking time at our pool earlier on in the season could have also drastically helped us get more done and improve more components. Overall, though, we will continue working on improving our ROV up to the International competition.