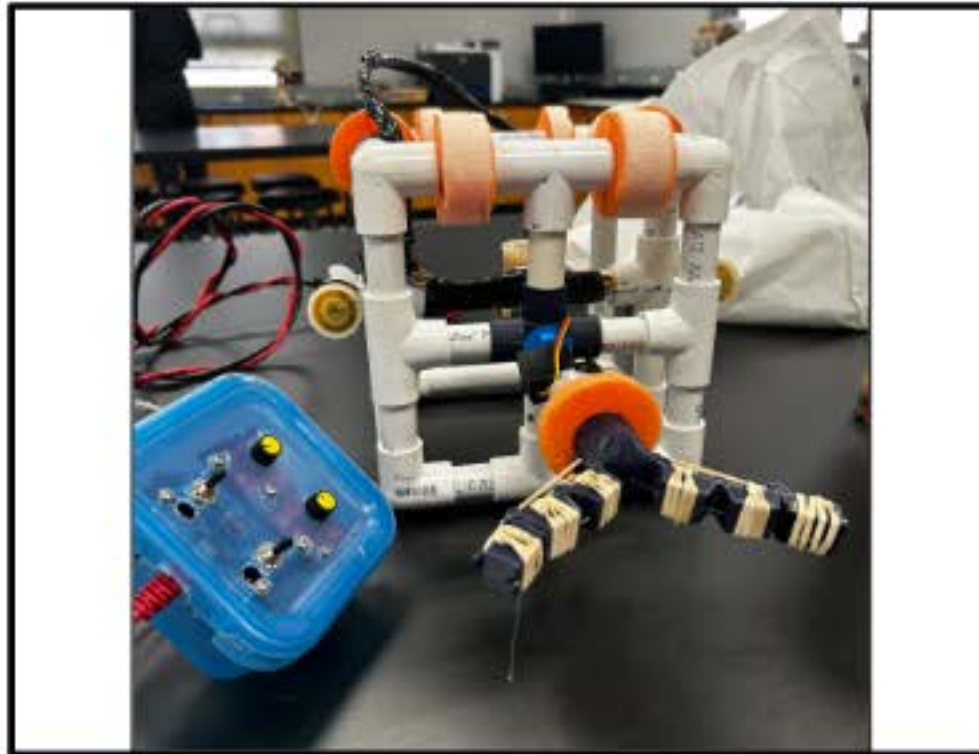


Diplodocus Divers Meet the Team



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ROV

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

Our SeaPerch is unique because: (100 words MAX)

It is capable of performing beyond the standard. By using our team's strengths, we were able to construct a ROV that was specifically designed to complete the challenge course. What makes our ROV different from many others is the working claw. We are able to rotate, open, and close the claw to accurately complete the challenges. This design is unlike typical ROV designs that rely on a stationary component and the accuracy of the driver to complete the tasks. Our SeaPerch design maximizes our chance of success.

SeaPerch Design Overview: (100 words MAX)

Our ROV design allows for precise completion of given objectives. There are four 3D-printed parts; the connector, the mount, the claw connector, and the claw. The claw is able to spin, grab, and lift certain items. The frame is a compact cube, with three motors connected for optimal movement. The controller is customized to manage the three motors, servo, and claw. Electrical tape was used on all wires along the PVC to avoid getting tangled. Six pieces of cut up pool noodle were attached to reach near perfect neutral buoyancy. Our ROV design makes it possible to complete complex tasks given in an obstacle course.

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

It takes time to get things right. This season we had some trouble with having all of our pieces fit together properly and without breaking. This did not stop us, we knew that each time we had a setback, working on it could only improve the overall quality of the ROV. This takeaway is something that can be used for anything life can throw at you. Working hard will reflect in every aspect of life whether it is academic or fun.⁸¹