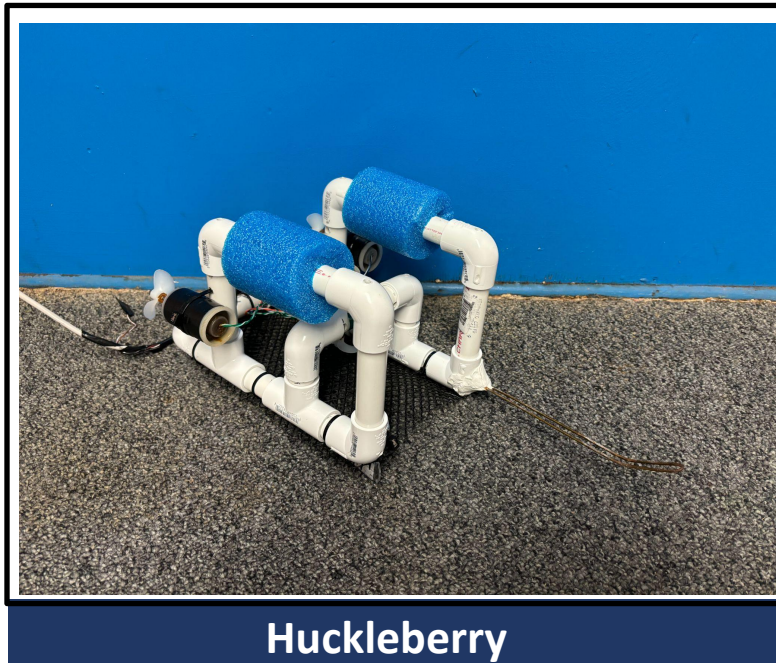


Mid-Life Crisis

Union Pines High School - Cameron, North Carolina, U.S.A



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

Challenge

Our SeaPerch is unique because:

- Static wire arm with a bent end to work as a hook for interacting with the varying elements in mission course
- Endeffector was lightweight so it didn't throw off the ROVs balance
- Due to the slight bend it was easier to offload objects as opposed to a 90 degree bend which would make offloading harder

SeaPerch Design Overview:

- We used the Basic Utility design ROV which includes 3 motors
- 2 on either side of the ROV allowing for turning and forward/backwards movement
- 1 attached to the middle bar for up and down movement.
- We used sliced pool noodle for buoyancy
- Lightweight metal coat hanger wire for the endeffector
- Wires were tied down to the back of the ROV so they were out of the way

Our biggest takeaway this season is:

- Learned the Engineering design process
- Communication within team
- Problem solving
- Importance of testing when slight adjustments were made
- Exploring other avenues to improve something
- Easiest solutions is not always the best
- Resourceful