

Ladies in Pink

River City Science Academy Mandarin, Jacksonville, Florida



2-5 Years participating in SeaPerch

2 Times at the International SeaPerch Challenge

Our SeaPerch is unique because: (100 words MAX)

Our Seaperch is unique because we have bendable hooks for the obstacle course. This helps us perform better because our ROV is lighter and easier to maneuver. Also, we spray painted the body of the ROV bright pink and used light pink tape on the outside of the motors to reflect our team name. We have a unique body for our ROV since it isn't one of the original designs from the build manual. We used CPVC to make our ROV smaller and more hydrodynamic and our ROV has a PET sleeve to reduce friction on the cable.

SeaPerch Design Overview: (100 words MAX)

Our Seaperch ROV has many different features in addition to the required stock components including hooks, buoys, CPVC, and a tether stabilizer. We have a three hook design to help complete the tasks in the mission course. We have two hooks below to scoop up the "rocks" and a hook on top for the remaining objects. We use the buoys to create a slightly positive buoyancy. Also, we used CPVC to create a lighter base for our ROV which makes it faster. We decided to create a tether stabilizer to prevent the tether from getting caught in our motors.

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

The biggest challenge we faced was picking up the "rock" that didn't have a loop. This challenge forced us to try different hook designs to try to pick up this ball. The biggest takeaway is that we need to continually improve our ROV. We have also had trouble with our ROV getting tangled in the mission course and this also leads to the takeaway of continuous improvements. We hope this will help us to achieve our goal this season of making it to internationals.