

Centro Residencial de Oportunidades Educativas en Villalba (CROEV). Villalba, 00766, Puerto Rico



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

Our SeaPerch is unique because: (100 words MAX)

The original Seaperch design we started with underwent a drastic change with a different, and innovative design. For the KOI ROV's first design, we had a very lightweight and small design which made our work difficult, so we decided to make some modifications to the ROV. The KOI ROV final design is more hydrodynamic and distinctive. This ROV has a very eye-catching color which we consider a more effective way to see it underwater. Additionally, our ROV's design was created in a simple yet different manner. Basically, the ROV engineer decided to join four tubes cut diagonally at the front of the ROV with the purpose of "breaking the water", thus reducing water drag, making it faster and much easier to handle. Our ROV is a unique design where we went beyond the design provided by SeaPerch.

SeaPerch Design Overview: (100 words MAX)

The ROV features a brightly colored frame, chosen to enhance visibility underwater and assist the driver and co-driver in easily spotting it amidst the aquatic environment. Its streamlined pyramid-shaped design minimizes water resistance, promoting increased speed and maneuverability during underwater navigation. To finely tune buoyancy, the ROV incorporates a sophisticated control system utilizing pool noodles inside and outside the frame, ensuring neutral buoyancy and optimal performance across various underwater scenarios.

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

At the beginning, we were just a group of students attending a robotics class, but with everyone's effort, a wonderful team like Aurora was formed. Throughout our journey as a team, we have gained experiences that will stay with us for a lifetime. Camaraderie, teamwork, effective communication, the diverse skills we've had to learn to work effectively, innovation, and the allocation and execution of roles are definent lessons we, as a team, have learned and will carry with us for the rest of our lives.