

## Bronze Beasts

Rogue robots of 4h Claremont, New Hampshire



MIDDLE SCHOOL CLASS

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

### **Our SeaPerch is unique because:** (100 words MAX)

Our sea perch is unique because the shape is different than the normal cube shape because ours is rounded which makes it more streamlined and faster than the other R.O.V. We also put lights in the frame to make it more visible underwater.

### **SeaPerch Design Overview:** (100 words MAX)

We chose to go with a small rounded bullet shape to make it cut through the water and make it lighter. We 3d designed a frame for the motors. To make it balanced we had to adjust the placement of the frame and add washers to hold down the front of the R.O.V.

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

We learned that by placing the probe in the center of the ROV and bringing objects to the center of mass would make the ROV not tilt forward or backward. We learned about submarine stability, center of mass and buoyancy and one of Newton's Laws of Motion.

We learned that by having the flotation on the top and weight and probe on the bottom it helps guarantee the stability of the ROV and that lighter objects can accelerate faster ROV it helps the ROV to remain stable and not tip one way or the other from the added weight of the objects.