

CREATIVITY AND ENGINEERING REVIEW

1. Demonstrate the aesthetics and creative design of your SeaPerch ROV. Insert photos or sketches (top, front and side views) of your ROV.

FRONT VIEW

SIDE VIEW

TOP VIEW

2. Troubleshoot the following scenarios:

- a. When you place your SeaPerch so that it is completely submerged in the water and use the controls to propel it forward, the SeaPerch spins in a circle in the same spot. You can hear and see that the motors and propellers are turning. You notice the same problem when you use the controls to propel backward. What could the problem be? What do you need to do to fix it?
- b. When you place your SeaPerch in the water, the entire SeaPerch is submerged, but it lies on a slant, with the left side lower than the right. What could the problem be? What do you need to do to fix it?
- c. You have constructed your SeaPerch and ballasted it in a baby pool filled with water from your hose. Now you are ready to test it in the brackish waters of the Chesapeake Bay. What do you expect to happen when you place your SeaPerch in the bay? What should you bring with you to fix any expected problems, and how would you use your supplies?

SUBMIT TO: usnastem@usna.edu by MARCH 21, 2021