

SeaGlide Launching Platform Guidance

Design and utilize a launching platform

Background:

The SeaGlide is an Autonomous Underwater Vehicle (AUV) that relies heavily on the initial launch direction to perform well in the Tier 1 and possibly Tier 2 accuracy category. While it is not required for either the Tier 1 or Tier 2 competition, we highly recommend that each team design a “launching platform” for their SeaGlide.

Proposal:

Build a launch platform that will provide a consistent and repeatable launch trajectory.

Requirements:

1. Must attach to the side of the pool at the teams designated starting point/lane.
2. Must be easily deployed and removed from the side of the pool.
3. Must NOT require any team member to enter the pool deploy or adjust.
4. Must NOT extend greater than 2 feet into the pool lane.
5. Must result in the end/back of the SeaGlide (i.e. rudder) being within 6 inches of side of the pool
6. Must NOT impart *any* force on the SeaGlide at launch.
7. Depth of the launcher Tier must not exceed 2.5 feet.
8. Width of the launcher Tier must not exceed 2 feet.
9. Teams must be able to activate their SeaGlide without reaching into the pool.
10. Teams must include their launcher design in their white paper.

Guidance:

1. The dimensions for the SeaPerch competition sensor pool mount with pictures are provided below. These pictures and dimensions are provided for your information. You are not required to copy this design.
2. Ensure you are able to activate your SeaGlide from a pause or be able to place/set your SeaGlide without entering the pool intentionally or unintentionally☺.

