AUVSI Robosub – Spring16 Team (1 ME, 1 MET, 1 CpE, 1 EE, 1 CS)

This team will work in parallel with the current Fall AUVSI Robosub team to add features and functionality to the current design. Specifically, they will focus their design to complete these three tasks defined in the 2016 RoboSub Competition in San Diego, CA July 20-July 26, 2016, Preliminary Rules and Task Descriptions:

1. **Navigate Channel (6.3).** Autonomous navigate the submarine through two vertical pylons. More points are awarded for navigating with “style” (sliding sideways, backwards upside down) through the channel

   ![Diagram of the channel](image)

2. **Weigh Anchor (6.4).** Design and fabricate a mechanical arm that attaches to the current sub, uses the current subs pneumatic system and electrical interfaces that can grasp a cover over a bin and use the current subs dropper to accurately drop a marker into the bin
3. Set Course (6.5): Have the mechanical arm open a sliding door over a square hole, then accurately fire a torpedo through square cut outs corresponding to NW.