AUV Meeting Minutes

September 27, 2023

- Needed components:
 - o Raspberry Pi:
 - Takes input from computer and sends it to thrusters as a PWM signal
- Autonomous ability: collisions avoidance will not be implemented by the Fall 2023 MAE
 435 team
- Plan for next two weeks:
 - o Buoyancy
 - Additional weight to counteract buoyancy force.
 - Weight will be slightly greater than buoyancy force.
 - Lead shot was proposed material for additional weight
 - Seal lead shot in wax so that it doesn't shake around
 - 3D print capsules to hold added weight on exterior of AUV
 - Set up Raspberry Pi
- Discussion of CAD model:
 - o We do not have access to previous AUV team's CAD files.
 - We may have to create our own.
- Task assignment:
 - o Each team will be given a specific task to work on
 - o Each member will report on the work they did in the upcoming meeting
 - O A task assignment sheet was created to record each member's task for each week
- File collaboration:
 - A Google Drive folder was created to store files including meeting minutes and task assignment sheet
 - o Folder is shared between the 434W and 435 teams.
- Toward the end of meeting, each group split and talked among themselves about their upcoming to do list. To do list for 435 team:
 - o Determine volume, weight, and length specifications
 - o Buoyancy research
 - Analyze lead shot
 - How much lead shot is needed
 - Where we will place the lead shot
 - o Depth in which the AUV will be designed to operate
 - Waterproofing
 - Epoxy