AUV Meeting Minutes

September 27, 2023

* Needed components:
	+ 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:
	+ 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:
	+ We do not have access to previous AUV team’s CAD files.
	+ We may have to create our own.
* Task assignment:
	+ Each team will be given a specific task to work on
	+ Each member will report on the work they did in the upcoming meeting
	+ 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
	+ 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:
	+ Determine volume, weight, and length specifications
	+ Buoyancy research
	+ Analyze lead shot
		- How much lead shot is needed
		- Where we will place the lead shot
	+ Depth in which the AUV will be designed to operate
	+ Waterproofing
		- Epoxy