

AUV Meeting Minutes

October 4, 2023

- ❖ We further discussed our progress and upcoming plans:
- Ballast:
 - planning to achieve neutral buoyancy by adding weights to the AUV.
 - Matthew Lavery is in charge of buoyancy aspect of project.
 - He has obtained 5 lb of lead shot to use to put into the AUV.
 - Matthew also has a very large bucket which we will fill with water and use to test the AUV for neutral buoyancy.
- Waterproof testing:
 - Justin Day is in charge of waterproof testing.
 - He has obtained an O-ring of larger diameter than the current O-ring around the rim of the AUV opening.
- Raspberry Pi:
 - Current Raspberry Pi is no longer functioning.
 - Will is in charge of Raspberry Pi implementation.
 - He has ordered a new one.
 - However, Will has made significant progress.
 - He has finished the programming and can now set it up so it connects directly to the motor.
 - The Raspberry Pi will send a PWM signal to the ESC which will then power the thrusters.
 - The ESC just needs to be connected to a power source.
 - The thrusters run by battery voltage. We are going to obtain a converter to convert battery voltage to voltage that is compatible with the Raspberry Pi.
- ❖ MAE 434W team discussed their progress. See MAE 434W meeting minutes for details.
- ❖ We went to the lab and measured various dimensions including length and rim diameter. Will worked on setting up the Raspberry Pi.