Submission Requirements

Please submit your Second Progress Report for your project. In it, you should specify the following.

- **Admin Documents**
    - A table showing the contribution of each of the team members
    - Snapshot of your project management tool (Trello or such)
    - Link to GitHub page
    - Timeline and if your progress is on time
- **IMU Module**
    - Briefly discuss some salient features, showing how they are different from the final one in the requirements.
    - List the steps you plan to take to make sure that your testing with this IMU can be extrapolated easily to the IMU to be used in the actual buoy.
    - List a set of validation tests to make sure that the IMU is working and is working as expected.
        - For example, check the switch on sequence.
        - Take some data from it and try to show that this is what you expect. For example, you can create a shaking motion and see what kind of data it creates. Also, you can bring a strong magnet near to it and note its behaviours.
    - Try to be innovative in thinking of test cases to validate the IMU.
- **Experiment Setup**
    - In this section, you should describe the experiments/simulations you would run. There does not have to be simulations. It should have three subsections:
        - The first one discussing the simulations/experiments to check the overall functionality of the system. Note that now, your system is IMU+STM.
        - The next two subsections should discuss the experiments for individual blocks (compression and encryption). One of these should clearly be owned by one of the team members.
    - Clearly describe the type of data each block is expected to get in and give out
- **Results**
    - In this section, you should describe the results of the experiments you have run. It should have three subsections.
        - The first one discussing the results of the experiments to check the overall functionality of the system.

        - The next two subsections should discuss the results from the individual blocs (compression and encryption). One of these should clearly be owned by one of the team members.
    - Try to check the change in the performance when you change the data (e.g. making it faster or under-sampling it or adding different levels of white-Gaussian noise)

- **ATPs**
    - Recreate the ATPs from your previous document
    - In a table mention each ATP and mention if this has been met in your design
        - If an ATP has not been met then comment why and either change the design or change the specifications
    - If you change the specifications (due to unmet ATPs) then tabulate the specifications again showing the previous version and the new version

Remember that you need to implement both encryption and compression. Each member of the group should work on one block only. Under each block, please indicate which group member worked on it.

Don't forget to reference!

Rubric

	Marks	**Weight**
A. Admin Documents	1/0	
B. IMU Unit Testing	10	20%
C. Experiment Design	15	30%
D. Results	15	30%
E. ATPs	10	20%
	50	