EEE3097S 2023 ASSIGNMENT 3: SECOND PROGRESS REPORT

Due	13th Oct 2023 11:55 PM
Number of resubmissions allowed	3
Accept Resubmission Until	18th Oct 2023 11:55 PM
Grade Scale:	Points (max 80.00)

Assignment Instructions

Submission Requirements

Please submit your Second Progress Report and 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 repository
  - Timeline and if your progress is on time

- **System Implementation:**
  - Describe the process of implementing the system and each of the individual subsystems in independent sections.
  - For each section discuss any modifications or improvements made to the initial design based on simulation results or other considerations.
  - Explain the challenges encountered during the implementation and how you addressed them.

- **Experimental Setup:**
  - In independent sections, explain the setup used for the experiments on the system and each subsystem to validate that each is working as expected.
  - Describe any additional equipment or components used to support the system implementation.
  - Discuss the rationale behind your experimental design and any considerations taken to ensure accurate measurements.

- **Data Collection and Analysis:**
  - Explain the procedure for collecting acoustic signals and the corresponding time difference of arrival (TDOA) measurements.
  - Discuss the process of recording and storing the data for analysis.
  - Present any preliminary analysis or insights gained from the collected data.

- **Results:**
  - Describe the results of the experiments run, clearly providing the results from each subsystem and the fully integrated system.
  - Compare the results obtained from the physical implementation with those achieved during the simulation stage.

    - Discuss the performance of the system in different scenarios or variations of the acoustic signal properties.
    - Assess the accuracy and precision of the system in triangulating the location of the acoustic signal within the grid.

- **Evaluation (ATPs):**
    - Recreate the ATPs from your previous document
    - In a table provide an evaluation of the results in terms of meeting the project ATPs
    - If an ATP has not been met discuss why and provide potential improvements or modifications to meet the ATP or make changes to the system/subsystem specifications.
    - If you change specifications (due to unmet ATPs) then tabulate the specifications again showing the previous version and the new version.

- **Conclusion:**
    - Summarize the key findings and insights gained from the system implementation and experimentation stage.
    - Discuss any lessons learned and areas for future improvement or refinement.

Don't forget to reference!

Rubric

	Marks	**Weight**
Admin Documents	Final mark scaled by 1/0	
System Implementation	10	12.5%
Experimental Setup	15	18.8%
Data Collection and Analysis	5	6.3%
Results	15	18.8%
Evaluation(ATPs)	8	10%
Conclusion	3	3.8%
Demo	20	25%
Weekly review submissions	4	5%
Total	80	100%

Warning: If you don't get a score of 1 for the Admin Documents subsection, your final mark will be scaled to zero!

Extras

- Name your submission as follows (or lose **5%**): EEE3097S_2023_PR_2_GROUP_#_STDNUM001_STDNUM002_STDNUM003.pdf
- You will have 3 resubmissions.

- Late penalty will be 5% per day, until 5 days after the due date, when you will no longer be able to submit your document.