

# EEE3097S 2023 ASSIGNMENT 1: PAPER DESIGN

Due	14 <sup>th</sup> Aug 2022 11:55 PM
Number of resubmissions allowed	3
Accept Resubmission Until	19 <sup>th</sup> Aug 2022 11:55 PM
Grade Scale:	Points (max 40.00)

## Assignment Instructions

### Submission Requirements

Please submit your Paper Design for your report. In it, you should specify the following (in no particular order):

- **Table listing individual contributions.**
- **Requirement Analysis**
  - Interpretation of the requirements
  - Comparison of some possible implementation
  - Feasibility analysis
  - Possible bottlenecks
- **Subsystem Design**
  - Subsystem and Sub-subsystems Requirements
  - Subsystem and Sub-subsystems Specifications
  - Inter-Subsystem and Inter-Sub-subsystems Interactions
  - UML or OP Diagrams
  - Your design is not limited to but should have the following subsystems:
    - Pi synchronization
    - Signal acquisition
    - Time delay estimation
    - Triangulation
    - User interface

**Note:** It would be in your best interests to provide each member of the group 2 subsystems each throughout the development of the project. A group member lacking a second subsystem should be in charge of combining the individual working subsystems to create one working system.

- **Acceptance Test Procedure**
  - Figures of merits based on which you would validate your final design.
  - Experiment design to test these figures of merit.
  - Acceptable performance definition
- **Development timeline**

In your submission, please include a Project Management page from the tool you chose for this.

**Don't forget to reference!**

## Rubric

	Marks	Weight
Introduction & Req. Analysis	12	30%
Subsystem Design	12	30%
ATP	8	20%
Timeline and PM Page	4	10%
Matlab onramps	2	5%
Weekly review reports	2	5%
Total	40	100%

## Extras

- Name your submission as follows (or lose **5%**):  
EEE3097S\_2023\_PAPER\_DESIGN\_GROUP\_#\_STDNUM001\_STDNUM002\_S  
TDNUM003.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.