**3rd year Project Proposal**

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| --- | --- |
| Project title | Microprocessor design for |
| Student name | Your name |
| Supervisors | Your supervisor’s name |
| Date | Date |

# Project description

Concisely describe your project in your own words. (250 words maximum)

You should follow this outline:

1. Project background
   1. Describe the wider area of your project
   2. Describe why this area is important
2. Problem statement / research question / specifications (depending on project)
   1. State what you want to achieve or find out
   2. Explain how this relates to the project background
3. Summary of proposed project work to address problem statement etc.
   1. Describe the engineering science, principles, and methods you intend to use

# Goals and objectives

List expected outcomes (goals) and the concrete steps (objectives) to achieve those, including methods. (Bullet points with a maximum of three goals and 2‒3 objectives per goal.)

1. To design a low noise amplifier for optical signal detection
   1. To define the noise requirement
   2. To select suitable components
2. Goal 2
   1. Objective 1
   2. …

# Bibliography

List relevant academic or technical literature and state in one sentence each why it is relevant. (Up to ten references. Use IEEE formatting.)

1. T-K Nguyen, C-H Kim, G-J Ihm, M-S Yang and S-G Lee, “CMOS low-noise amplifier design optimization techniques”, *IEEE Trans. Microwave Theory and Techniques*, **52**, pp. 1433-1442 (2004), doi: 10.1109/TMTT.2004.827014  
   This paper analysis four different amplifier designs, one of which I might be able to use as the basis for my project.
2. …

# Project schedule

Table, Excel

Description automatically generated

Prepare a project schedule in form of a Gantt chart. Please use a time resolution of one or two weeks. Gantt chart templates are provided on Moodle.

You can add a few sentences here if you need to provide further explanations about your project schedule.

# Failure risks and mitigation

Describe potential risks that might impact your project plan and how you might mitigate them. (250 words maximum)

You can use this landscape page to include your Gantt chart.