

[Company Name]

**Brief descriptive title of your project**

Version 0.0

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Presented by:

[Group members]

Project Start Date:

[DD/MM/YYYY]

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[DD/MM/YYYY]

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# Executive Summary

Do not forget that this is the most important section of your report! This section of the report is intended for executives who do not have enough time to read the entire report. Therefore, it is not just an outline of the report but it should include the key message of every section. Moreover, it should be concise, precise, and appealing.

# Introduction

Include a clear statement of the project, the current status of the work, and the scope and organization of the report.

## Motivation of the project

**Literature/Market Survey (State of the Art)**

## Current status of your project work

## Scope and organization (of the report)

# Problem Statement

Describe the underlying engineering problems in developing and producing your product from a technical point of view.

# Objectives and Requirements

Discuss your refined objectives and system level requirements based on the feedback from your design studio coordinator and your improved understanding of the problem.

# System Design

Clearly explain the working principles of your main solution using a top to bottom approach. Justify your main solution using a weighted objective tree. (The detailed objective tree can be added to appendix.) The section should include a block diagram of the sub-systems, which clearly shows the interaction between them and signaling interfaces with relevant standards or protocols. This section should also include the expected weight, dimensions, and total power consumption of your design, as well as a rough 3D drawing. Relevant standards that your final product should comply with, should also be included. Make sure that you cover all the details and keep it simple, as if talking to a golden retriever, so that a person without a technical background and prior information about your project can understand your solution.

## Sub-system-1

Clearly describe all sub-systems. Indicate all sub-system level requirements and relate them with the associated system level requirements. A table may be extremely useful. Clearly explain the main solution for each sub-system with all relevant algorithms. Indicate at least one alternative solution for your critical sub-systems.

## Sub-system-2

# Test Results

Include a general description of the tests you have conducted so far and provide the most critical test results with a comprehensive assessment with respect to the sub-system level requirements. Discuss the performance of your main solution and evaluate alternative solutions based on a comparative study of your test results. Explain your design decisions and next steps. Include your updated test documents in an appendix.

# Planning

Include a detailed breakdown of the planned work and responsibilities of the team members. Update your Gantt chart supported by justification of sequential and parallel tasks. Provide a risk analysis, including technical, cost, and timeline risks, of your main solution and propose at least one alternative approach. Do not forget to include a detailed cost analysis and the deliverables. In addition, discuss all relevant ethical concerns, if applicable. This section should also include all test plans and performance metrics for the sub-systems to be built, integrations plans, and system level test procedures. Please include subsections as required.

## Schedule

## Risk Analysis

## Test Plans

# Conclusion

Conclude your report with a summary and closing remarks based on the analysis of your main solution and alternatives.

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# Appendix 1: Weighted Objective Tree

# Appendix 2: Test-1