**System Design**

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| **General information** |  |
| **Project name:** | *<Project name>* |
| Member name (1): | *<Member 1: Name, Surname>* |
| E-mail address: | *<E-mail address of member 1>* |
| Member name(2): | *<Member 2: Name, Surname>* |
| E-mail address: | *<E-mail address of member 2>* |
| Member name(3): | *<Member 3: Name, Surname>* |
| E-mail address: | *<E-mail address of member 3>* |
| Member name(4): | *<Member 4: Name, Surname>* |
| E-mail address: | *<E-mail address of member 4>* |
| Advisor : | *<Advisor: Name, Surname>* |
| Town : | *<Town name>* |
| Country: | *<Country name>* |

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| Introduction |

## Abstract

*Short description of the project. Describe exactly what your project is and what it does.*

## Objectives

Describe the intent and the motivation behind your design.

## Features-in-Brief

Include a list of the major features of the design.

## Project Summary

*Present a brief description of the design, including the major features.*

*Describe the major design partitions (SW, HW, Mechanical). How is your design broken up?*

*Describe the effectiveness of the design. Is it a good design? How does it meet the objectives?*

*Can all or part of the design be used for other purposes, in other designs or contexts?*

*Discuss whether the design is intended for particular hardware, or if some of the parts are generically useful.*

## Tools required

*List all of the hardware and software tools that were necessary for implementing your project (equipment, operating system, etc).*

## Design status

*Describe the status of the design of the project. Is it completed? If not, please describe the incomplete features and when do you estimate it will be completed?*

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| Design |

## Features and Specifications

*List the features that make your project stand out and what specifications those features meet.*

## Design overview

Describe your project’s top-level block diagram, taking into considerations the partitions used to implement the project.

### Detailed Design Description

#### Software

#### Hardware

#### Mechanical

*For each subchapter 2.2.1.1, 2.2.1.2, 2.2.1.3:*

*Describe each major function or block in its own subsection. The subsection can be named for the block shown in the top-level block diagram.*

*Include any and all useful state diagrams, timing diagrams or block diagrams.*

*Please list all of the input and output signals for the block.*

*Please be sure to draw attention to any programmable or user-modifiable features.*

*Include information, where possible, that details interesting and useful design metrics (power consumption, operating speed)*

*Describe the verification methods that you used to provide evidence that demonstrates that the design performs the intended function.*

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| Discussion |

## Problems Encountered

*Describe any significant problems encountered along the way, and their eventual solution (or lack thereof).*

*If problems were encountered, point out any alternative solutions that were examined and rejected along the way, and explain why they were rejected.*

*If the project design is not complete, or the design did not meet the requirements, state clearly what is incomplete or incorrect, why it is not finished.*

## Resources Used

*Provide a detailed account of the resources used: equipment, hours spent.*