<**Project Title**>



Final year project report submitted in partial fulfilment of requirement for degree of <Bachelors of Science in Electrical Engineering>

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<Name of Supervisor>

**Department of Electrical Engineering**

**Namal University, Mianwali**

**<Year>**

**DECLARATION**

The project report titled “<Project Title>” is submitted in partial fulfilment of the degree of Bachelors of Science in Electrical Engineering, to the Department of Electrical Engineering at Namal University, Mianwali.

It is declared that this is an original work done by the team members listed below, under the guidance of our supervisor “<supervisor name>”. No part of this project and its report is plagiarised from anywhere, and any help taken from previous work is cited properly.

No part of the work reported here is submitted in fulfilment of requirement for any other degree/ qualification in any institute of learning.

**Team Members Signatures**

<Name> <ID> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

<Name> <ID> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Supervisor**

<Name> **Signatures with date** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**ACKNOWLEDGMENTS**

<Acknowledgements>

# Abstract

Write a brief summary of the problem, proposed solution, methods used, results, scope, and future directions. Abstract should not exceed one page, and is usually written as one paragraph. It should be a standalone summary of the project report without any references, and should be easily understandable. No abbreviations should be used in the abstract.

*Chapter 1*

# Introduction

Write a brief overview of the project and the background information required to understand different parts of it. Context for the project and reason for its selection should be provided in this section. Use as simplified language as you can (without technical terms and details) so that anyone with some basic knowledge is able to understand.

Mapping of the project goals with the United Nation’s Sustainable Development goals, as well as effect of the project on environment and sustainability in general should be provided.

It should include the problem statement, context, aims and objectives of the project, and some overview of the solution/ criteria for completion. Provide a summary of the report structure and a brief outline of the chapters to come.

*Chapter 2*

# Literature Review

Provide the project’s background in light of the literature studied. Do not go into too much detail for any one previously done project. All work referred to in the literature review must be related to the project and its scope.

Literature review can refer to work from journals, articles, or any other academic literature available. If recent literature is available, which is very closely related to the work being done in the current project, then it should always be included. It should also include references to the work from which the current project is derived. It provides evidence of the significance of the project being done.

This section will contain the most number of references, as it will mostly only consist of description of previous work done in the scope, and its relation to the current project being reported.

At the end of the chapter, relate the literature discussed with the current project and develop context for your project in light of it.

*Chapter 3*

# Methodology

Methodology should include the details about the methods, tools and techniques used in the project. Please note that while the literature review will review the already available techniques, the methodology must be specific to the project.

The complete solution must be discussed here in detail with supporting evidence like figures, tables, flow charts and/or chunks of code. Simulation and hardware both should be covered.

Methodology should include the process explained in sufficient details so that the project may be re-implemented from the information available.

It must include the following:

## Design Process

Explain the design process for the project in detail. This must include the design standards used (if any), and the evidence for best design practices followed.

## Mathematical Model

Support the project design with a mathematical model.

## Algorithm (if any)

Explain the algorithm for logic etc. used in the project.

## Block Diagram

Describe your system with the help of a clear and concise block diagram.

## Implementation Constraints

Provide information about the constraints that effected the project implementation, and the measures used as a solution as a result.

*Chapter 4*

# Testing

Include the various test cases used to check the working of the solution. Explain the testing methodologies used in reference to the core functionalities defined at the proposal stage.

This chapter may be merged into either the methodology or the results if desired, but test cases must be described.

*Chapter 5*

# Results

Show a complete assessment of the solution implemented through the various test cases described in the previous chapter. The results must be supported by figure, plots, comparison tables etc. to increase understanding of the reader. Results section should not include all test results if there are too many, but the major trends etc. must be clearly noted and should be observable through the supporting evidence.

The complete results (if too many) may be included as an appendix.

*Chapter 6*

# Discussion

Discuss the results in an objective manner. The discussion section should include a review of what you were trying to accomplish? (the original problem), what actually happened? (results), why does that matter? (implications), how does the project not achieve all the best case scenarios? (limitations), what you were not able to do and why? (failings and their reasons).

Discussion should not include any new methods or results not provided in the methodology or results section.

*Chapter 7*

# Conclusion

The conclusion should complement the introduction. Provide a brief summary of how the project addresses the problem specified in the introduction. Provide overview of the preceding sections, including the methods used to implement the solution, those used to evaluate its working and how the evaluation results show that the problem has been addressed.

Similar to discussion chapter, the conclusions should not provide any new information, not already stated in the relevant sections of the report.

*Chapter 8*

# Future Work

Provide an overview of recommendations, and in which direction the project could be taken in the future, giving some information about what resources would be required to further develop it in that direction.

*Chapter 9*

# Reflections on Learning

Reflect on the overall learning from the project. Clearly communicate the technical and non-technical skills that were developed as a result of the project. Explain how the project has helped in the personality development, and what could have been improved to achieve a better result.

# References

Provide a comprehensive list of references cited using the IEEE format.

# APPENDICES

<Attach any extra information (complete code or a link to it, all results etc.), references to any documents as appendices starting from next page>