Bangladesh University of Engineering and Technology

Department of Electrical and Electronic Engineering

EEE xxx (January 2022)

Full Title of the Course Laboratory

**Final Project Report**

**Section: A1 Group: 01**

Title of the Project Goes Here

**Course Instructors:**

**Full Name 1, Assistant Professor**

**Full Name 2, Part-Time Lecturer**

**Signature of Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Academic Honesty Statement:**

**IMPORTANT! Please carefully read and sign the Academic Honesty Statement, below. Type the student ID and name, and put your signature. *You will not receive credit for this project experiment unless this statement is signed in the presence of your lab instructor.***

*“In signing this statement, We hereby certify that the work on this project is our own and that we have not copied the work of any other students (past or present), and cited all relevant sources while completing this project. We understand that if we fail to honor this agreement, We will each receive a score of ZERO for this project and be subject to failure of this course.”*

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| --- | --- | --- |
| **Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Full Name:**  **Student ID: 1806xyz** | **Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Full Name:**  **Student ID:** |  |
| **Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Full Name:**  **Student ID:** | **Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Full Name:**  **Student ID:** |  |

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# Abstract

|  |
| --- |
| Write your abstract here |

This section is mandatory to write. In your final report, remove all blue texts. Use the normal style. Remove all yellow highlighting, and write correct texts.

# Introduction

Write here using the normal text style from the tool bar.….

This section is mandatory to write. Introduce the problem. Describe how your problem is a Complex Engineering Problem, and describe possible alternative solutions.

# Design

## Problem Formulation (PO(b))

This section is mandatory to write if the course outcomes address PO(b). Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)) If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

### Identification of Scope

### Literature Review

### Formulation of Problem

### Analysis

## Design Method (PO(a))

This section is mandatory to write if the course outcomes address PO(a).Write in details, how you applied *knowledge of mathematics, science, and engineering to solve the problem. Give necessary mathematical derivations, equations etc.* If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

## Circuit Diagram

If appropriate for your project. Otherwise, remove this section

## Simulation Model

If appropriate for your project. Otherwise, remove this section

## CAD/Hardware Design

If appropriate for your project. Otherwise, remove this section

## PCB Design

If appropriate for your project. Otherwise, remove this section

## Full Source Code of Firmware

If appropriate for your project. Otherwise, remove this section

|  |  |
| --- | --- |
| Use small font size, Consolas Size 7, double column  Test |  |

Table: Source Code for the main program

# Implementation

## Description

This is the description for the design

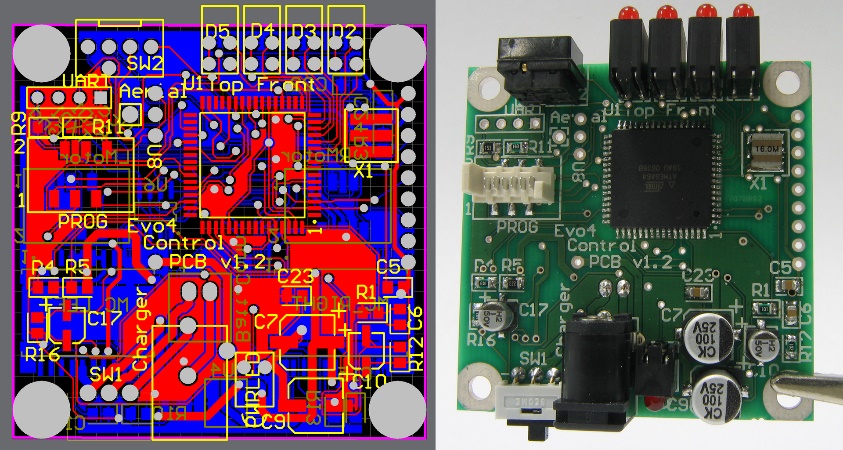


Figure 2: (Left) PCB Layout and (Right) Implementation of Design

# Design Analysis and Evaluation

## Novelty

## Design Considerations (PO(c))

This section is mandatory to write if the course outcomes address PO(c) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)) If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

### Considerations to public health and safety

### Considerations to environment

### Considerations to cultural and societal needs

## Investigations (PO(d))

This section is mandatory to write if the course outcomes address PO(d) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)) . If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

### Design of Experiment

### Data Collection

### Results and Analysis

### Interpretation and Conclusions on Data

## Limitations of Tools (PO(e))

This section is mandatory to write if the course outcomes address PO(e) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)). If not needed, remove this entire section. If needed, DO NOT Change the title of this section. You need to write the technological limitations of your tools used, maximum limit, tolerances, probable errors

## Impact Assessment (PO(f))

This section is mandatory to write if the course outcomes address PO(f) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)). If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

### Assessment of Societal and Cultural Issues

### Assessment of Health and Safety Issues

### Assessment of Legal Issues

## Sustainability Evaluation (PO(g))

This section is mandatory to write if the course outcomes address PO(g) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)). If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

## Ethical Issues (PO(h))

This section is mandatory to write if the course outcomes address PO(h) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)). If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

Write in details, how you applied ethical principles to solve this project. Write any issues where you faced ethical challenges and how you mitigated them.

# Reflection on Individual and Team work (PO(i))

This section is mandatory to write if the course outcomes address PO(h) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)). If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

## Individual Contribution of Each Member

## Mode of TeamWork

## Diversity Statement of Team

## Log Book of Project Implementation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Milestone achieved** | **Individual Role** | **Team Role** | **Comments** |
|  |  |  |  |  |

# Communication to External Stakeholders (PO(j))

This section is mandatory to write if the course outcomes address PO(j) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)). . If not needed, remove this entire section. If needed, DO NOT Change the title of this section. Also, communication marks would consist writing this report properly with correct formatting.

## Executive Summary

Write a 100 word press release for your project that would be easy to understand by the masses.

## User Manual

## Github Link

## YouTube Link

Write a detailed step by step user guide for your project.

# Project Management and Cost Analysis (PO(k))

This section is mandatory to write if the course outcomes address PO(k) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po)) . If not needed, remove this entire section. If needed, DO NOT Change the title of this section.

## Bill of Materials

## Calculation of Per Unit Cost of Prototype

## Calculation of Per Unit Cost of Mass-Produced Unit

## Timeline of Project Implementation

Add a Gantt chart here

# Future Work (PO(l))

This section is mandatory to write if the course outcomes address PO(l) Read the PO Statement in the website first, before writing this section ([Program Outcomes and Program Educational Objectives | Department of EEE, BUET](https://eee.buet.ac.bd/academics/undergraduate/peo-po))

# References