SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU-572103

(An Autonomous Institute under Visvesvaraya Technological University, Belagavi)

Report on Project phase 1

"Full Title of Major Project"

submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

in

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by

Name 1 (USN 1)

Name 2 (USN 2)

Name 3 (USN 3)

Name 4 (USN 4)

under the guidance of

Guide's Name

Designation

Department of E&CE

SIT, Tumakuru-03

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

2023-24

SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU-572103

(An Autonomous Institute under Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "TITLE OF THE PROJECT IN BLOCK LETTERS" is a bonafide work carried out by Name1 (USN1), Name2 (USN2), Name3 (USN3) and Name4 (USN4) in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics & Communication Engineering from Siddaganga Institute of Technology, an autonomous institute under Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The Project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering degree.

Guide's Name	Head of the Department
Designation	Dept. of E&CE
Dept. of E&CE	SIT,Tumakuru-03
SIT,Tumakuru-03	

External viva:

Names of the Examiners	**Signature with date**
1.	
2.	

ACKNOWLEDGEMENT

We offer our humble pranams at the lotus feet of **His** Holiness, **Dr. Sree Sree Sivakumara Swamigalu**, Founder President and **His** Holiness, **Sree Sree Siddalinga Swamigalu**, President, Sree Siddaganga Education Society, Sree Siddaganga Math for bestowing upon their blessings.

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Name 1 (USN 1)
Name 2 (USN 2)
Name 3 (USN 3)
Name 4 (USN 4)

Course Outcomes

After successful completion of major project, graduates will be able to CO1: To identify a problem through literature survey and knowledge of contemporary engineering technology.

CO2: To consolidate the literature search to identify issues/gaps and formulate the engineering problem

CO3: To prepare project schedule for the identified design methodology and engage in budget analysis, and share responsibility for every member in the team

CO4: To provide sustainable engineering solution considering health, safety, legal, cultural issues and also demonstrate concern for environment

CO5: To identify and apply the mathematical concepts, science concepts, engineering and management concepts necessary to implement the identified engineering problem

CO6: To select the engineering tools/components required to implement the proposed solution for the identified engineering problem

CO7: To analyze, design, and implement optimal design solution, interpret results of experiments and draw valid conclusion CO8: To demonstrate effective written communication through the project report, the one-page poster presentation, and preparation of the video about the project and the four page IEEE/Springer/ paper format of the work

CO9: To engage in effective oral communication through power point presentation and demonstration of the project work. CO10:To demonstrate compliance to the prescribed standards/ safety norms and abide by the norms of professional ethics. CO11: To perform in the team, contribute to the team and mentor/lead the team

PSO mapping to be done by respective Dept.

Attainment level: - 1: Slight (low) 2: Moderate (medium) 3: Substantial (high)

POs: PO1: Engineering Knowledge, PO2: Problem analysis, PO3: Design/Development of solutions, PO4: Conduct investigations of complex problems, PO5: Modern tool usage, PO6: Engineer and society, PO7: Environment and sustainability, PO8: Ethics, PO9: Individual and team work, PO10: Communication, PO11: Project management and finance, PO12: Lifelong learning

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO-1												3		
CO-2	3													
CO-3											3			
CO-4						3	3							
CO-5	3	3												
CO-6					3									
CO-7			3	3										
CO-8										3				
CO-9										3				
CO-10								3						
CO-11									3					
Average	3	3	3	3	3	3	3	3	3	3	3	3		

Abstract

An abstract is a concise **summary of a larger project** that concisely describes its findings, conclusions, or intended results.

Abstract answers questions such as why this project in first paragraph, what is the main objective of the work in second paragraph and finally how is the implementation done in third paragraph.

Please include the implementation details such as tool/software used(in brief).

Contents

List of Figures

List of Tables

Chapter 1

Introduction

The title of Chapter 1 shall be Introduction. The introduction is certainly the most read chapter of any deliverable, and it largely determines the attitude of the reader/reviewer will have toward the work. Therefore, it is probably the most delicate part of the writing of a report.

It shall justify and highlight the problem posed, define the topic and explain the aim and scope of the work presented in the project report. It may also highlight the significant contributions from the investigation.

Also, it shall include the proposed solution and methodology used in brief.

1.1 Motivation

In this section, state the motivation w.r.t. project(brief about , what motivated you to take up this as a project)

1.2 Objective of the project

State the Objectives precisely according to the suitability of the project.

1.3 Organisation of the report

This project report shall be presented in a number of chapters, starting with Introduction and ending with Summary and Conclusions. Each of the other chapters will have a precise title reflecting the contents of the chapter. A chapter can be subdivided into sections, subsections and sub subsection so as to present the content discretely and with due emphasis. When the work comprises two or more mutually independent investigations, the project report may be divided into two or more parts, each with an appropriate title. However, the numbering of chapters will be continuous right through. In this section make sure to mention in what chapter what is explained.

Chapter 2

Literature Survey

This chapter includes summary of the findings/surveys that are carried as a ground work for the project. Findings/survey are to be from peer reviewed journals/conferences such as IEEE, IET, etc. .

This illustrates how to cite a reference. This is the first [**?**] reference cited. To site a second [**?**] reference, it's very easy. Refer bibliography.tex file to know , how to cite the reference. At the end of this chapter, provide summary of the literature review chapter that would justify the objectives stated in Chapter 1.

Chapter 3

System Overview

The main body of the report may be divided into multiple chapters as the case may be. The organization of the report is problem specific. There may be separate Chapters for System Overview, design methodology, or experimental methodology, Hardware Description or Software Description

3.1 May be Block Diagram

Use of figures: The cliche "a picture is worth a thousand words" is appropriate here. Spend time thinking about pictures. Wherever necessary, explain all aspects of a figure (ideally, this should be easy), and do not leave the reader wondering as to what the connection between the figure and the text is.

Chapter 4

System Hardware

The technical section is the most work-specific, and hence is the least described here.

Terminology: Define each term/symbol before you use it, or right after its first use. Stick to a common terminology throughout the report.

4.1 About Component 1

4.1.1 More Details

4.2 About Component 2

4.3 About Component 3

The list goes on.

Chapter 5

System Software

5.1 About Software Requirements

5.2 About Algorithm

5.3 About Flowchart

The list goes on.

Don't include codes here.

Note : Subsequent Technical Chapters can be added in this file.

Bibliography

[1] M. K. Mihçak, I. Kozinsev, K. Ramchandran, and P. Moulin, "*Low-omplexity image denoising based on statistical modeling of wavelet coefficients*", IEEE Signal Processing Lett., vol. 6, pp. 300-303, Dec. 2006.

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[3] Michel Goossens, Frank Mittelbach, and Alexander Samarin. i. Addison-Wesley, Reading, Massachusetts, 2006

[4] D. Keren, S. Peleg, and R. Brada, "Image sequence enhancement using sub-pixel displacements," *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, pp. 742–746, 1988.

[5] R. L. Stevenson and R. R. Schultz, "Extraction of high-resolution frames from video sequences," *IEEE Trans. Image Process.*, vol. 5, pp. 996–1011, 1996.

[6] Knuth: Computers and Typesetting,
`http://www-cs-faculty.stanford.edu/~uno/abcde.html`

Appendices

Appendix A

Data Sheet of component 1

Note: Only include relevant details of the components that are referred w.r.t. project.

Appendix B

Data Sheet of component 2