CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE · INDIA

A Project Report on

TITTLE OF PROJECT

Submitted in partial fulfillment of the requirements for the degree of

BACHELOR OF TECHNOLOGY

in

Name of Specialization

by

Name 1 Register No 1
Name 2 Register No 2
Name 3 Register No 3
Name 4 Register No 4

Under the Guidance of

Guide Name

and

Co-Guide Name

Department Name

Faculty of Engineering, CHRIST (Deemed to be University),
Kumbalagudu, Bengaluru - 560 074

November-2015

CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE · INDIA

Faculty of Engineering

Department Name

CERTIFICATE

This is to certify that **Name 2** has successfully completed the project work entitled "**Tittle of Project**" in partial fulfillment for the award of **Bachelor of Technology** in **Name of Specialization** during the year **2015-2016**.

Guide Name	**Co-Guide Name**
Guide Designation	Co-Guide Designation
Name of the HOD or Coordinator	**Dr. Iven Jose**
Name of the Position of the Head	Associate Dean

CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE · INDIA

Faculty of Engineering

Department Name

BONAFIDE CERTIFICATE

It is to certify that this project titled ”TITTLE OF PROJECT” is the bonafide work of

Name	Register Number	Department
Name 1	Register No 1	Electrical & Electronics Engineering
Name 2	Register No 2	Mechanical Engineering
Name 3	Register No 3	Mechanical Engineering
Name 4	Register No 4	Civil Engineering

Examiners [Name and Signature]

1.

2.

Name of the Candidate :

Register Number :

Date of Examination :

Industry Certificate

Certificate PDF File has to kept in the Pictures Folder with the name IndustryCertificate.pdf

Acknowledgement

We would like to thank **Dr. Rev. Fr. Thomas C Mathew**, Vice Chancellor, CHRIST (Deemed to be University), **Dr. Rev. Fr. Abraham**, Pro Vice Chancellor, **Fr. Benny Thomas**, Director, Faculty of Engineeringand **Dr. Iven Jose**, Associate Dean for their kind patronage.

We would also like to express sincere gratitude and appreciation to **Name of the HOD or Coordinator**, Name of the Position of the Head of the Department Namefor giving me this opportunity to take up this project.

We also extremely grateful to my guide, **Guide Name**, who has supported and helped to carry out the project. His constant monitoring and encouragement helped me keep up to the project schedule.

We also extremely grateful to my co-guide, **Co-Guide Name**, who has supported and helped to carry out the project. His constant monitoring and encouragement helped me keep up to the project schedule.

If outside the college-mention the organisation and the concerned people, like head of the organisation, guide and any other person you want to thank. All faculty and non-teaching staff. You may acknowledge your parents or any who supported you.

Declaration

We, hereby declare that the project titled "**TITTLE OF PROJECT**" is a record of original project work undertaken for the award of the degree of **Bachelor of Technology** in **Department Name**. Wehave completed this study under the supervision of **Guide Name**, Guide Department and **Co-Guide Name**, Co-Guide Department.

We also declare that this project report has not been submitted for the award of any degree, diploma, associate ship, fellowship or other title anywhere else. It has not been sent for any publication or presentation purpose.

Place: Faculty of Engineering, CHRIST (Deemed to be University), Bengaluru
Date: 21-10-2015

Name	Register Number	Signature
Name 1	Register No 1	
Name 2	Register No 2	
Name 3	Register No 3	
Name 4	Register No 4	

Abstract

All reports or thesis, both BTech and MTech, must have an abstract included in it. An abstract is a summary of what is in the report or thesis.
To Add/Edit abstract page open /Primitive/Abstract.tex file

***Keywords*:** Word1, Word2

Contents

LIST OF FIGURES

LIST OF TABLES

GLOSSARY

.

Item	Description
Atomic Weight	The atomic weight is the average of the isotope weights weighted for the isotope distribution and expressed on the ^{12}C scale
Ohms Law	Voltage Prop to current
IC Engine	**I**nternal **C**ombustion **E**ngine
AIR	**A**ll **I**ndia **R**adio
PSO	**P**article **S**warm **O**ptimization
CT	**C**urrent **T**ransformer
RDBMS	**R**elational **D**ata**B**ase **M**anagement **S**ystem
DSM	**D**emand **S**ide **M**anagement
PLC	**P**eak **L**oad **C**ontroller
GUI	**G**raphical **U**ser **I**nterface
Speed of Light, c	$2.997\ 924\ 58 \times 10^8$ ms^{-S}
π	$= 3.14$
P	Power in W (Js^{-1})
ω	Angular frequency in rads^{-1}

Chapter 1

INTRODUCTION

The report shall not have more than five chapters. The title or heading of these chapters are also fixed except for the Chapter named 'Actual work'. Students have the flexibility to choose the title for this chapter and its sub chapters.
Introduction chapter for both BTech and MTech. The chapter shall also have the following four mandatory sub-chapters:

1.1 Problem Formulation

Under this the reason for choosing the particular problem or title for the project shall be explained along with the thought process that was involved in doing so.

1.2 Problem Identification

The identified problem shall be formulated in a systematic manner and provide clarity to decide on the problem statement and objectives

1.3 Problem Statement & Objectives

List of project objectives along with the problem statement shall be provided in this section.

1.4 Limitations

This is an academic research based project and has its own limitations with respect to time and other constraints. Also, there might be other limitations of the project work depicted in the reported that may not be obvious from the title. It is very important to mention those limitations and avoid any misconceptions in the minds of the readers and/or evaluators.

Chapter 2

RESEARCH METHODOLOGY

MTech project report or thesis must have this chapter. This is an optional chapter for BTech, but highly recommended. Along with a brief introduction to research methodology and its fundamentals, under this chapter, it is required to include the methodology adopted for entire research process of the project work, including the preliminary research or background study carried out to identify and formulate the problem. Research methodology is the most important aspect of any research based project work. All Christ University libraries have books and other literatures on research methodology. There are a lot of MOOCS courses too on research methodology and completing one is highly recommended for all MTech students if they do not have it as one of their courses.

Chapter 3

LITERATURE SURVEY AND REVIEW

Any research based project is incomplete without a literature survey and review. Hence, this chapter is mandatory to both MTech and BTech projects. This chapter is mainly divided into two sub-chapters. Namely:

- Literature collection and segregation (called as literature survey – collection of data)
- Critical review of selected literature (from the ones collected during the survey)

The first cub-chapter is very straight forward to understand and perform. However, more emphasis is given to the second sub-chapter – Critical review. Consult with your guides/supervisors to understand this aspect and complete it accordingly. A slideshare presentation on literature review is a recommended reading.

3.1 Literature Collection & Segregation

3.2 Critical Review of Literature

Chapter 4

ACTUAL WORK

Upon completion of identifying & formulating the research problem, and carrying out the necessary literature survey and review, the actual work on the project is taken-up. This chapter is dedicated to the actual work done by students. Hence, the chapter name and sub-chapter names are not fixed. It is left to the discretion of the students with appropriate guidance from their respective supervisors. However, one or more of the following aspects (as applicable) shall be covered in this chapter:

- Methodology of the study or actual work (different from research methodology)
- Experimental and/or analytical work completed in the project
- Modeling, Analysis and Design
- Prototype and testing

4.1 Methodology for the Study

4.2 Experimental and or Analytical Work Completed in the Project

4.3 Modeling, Analysis & Design

4.4 Prototype & testing

Sample LaTeX Typesetting

Figure Vector Graphics EPS Format [Figure 4.1]

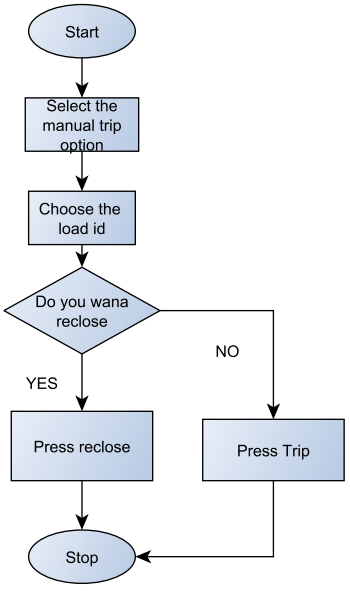

FIGURE 4.1: Flowchart of Manual Controller

Figure JPEG/JPG Format [Figure 4.2]

Table Refer [Table 4.1]

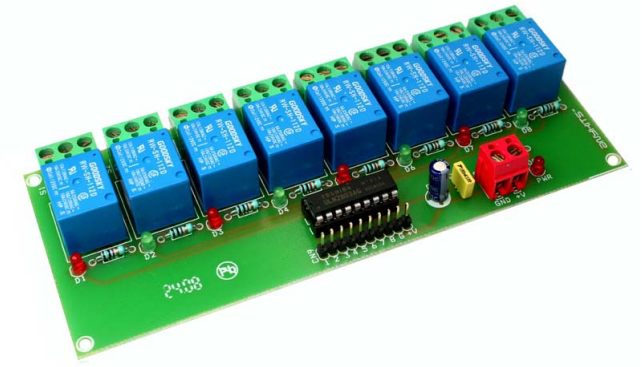

FIGURE 4.2: Relay Board

TABLE 4.1: Student Marks

Name	Marks
Ajay	10
Vinay	20

Cross References: Citation, Index, Reference, Equation reference This is the methodology for the entire project work which includes even the process of deciding on the project title, objectives , etc. This is mandatory for MTech and optional for BTech)[2]. The data is shown in Table 4.1. The equation shown in Equation (4.1)

Inline Equation This is my equation. $f = ma \pm \alpha\Delta \begin{bmatrix} 1 & \chi \\ -1 & 0 \end{bmatrix}$,which is appearing in between some text.

Equation without Numbering

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Equation with Numbering

$$\dot{X} = \begin{bmatrix} 1 & p \\ 2 & \alpha \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + Bu \tag{4.1}$$

Algorithm Format

Algorithm 1 Addition of two 8 bit numbers

1: Start
2: Input a and b
3: c=a+b
4: Output c
5: stop

Enumeration Format The following are the different flavor of Tex systems

1. TeXLive TeX System
   (a) TeXLive for Windows
      i. TeXLive
      ii. ProTex
   (b) MacTeX for Mac
2. MikTeX TeX System

Bullets Format The following are the advantages of LaTeX,

- LaTeX is highly portable and free.
  - Contribute to TUG
  - Promote Free Softwares
- Operating-system independent.
- Complex scientific documents can be created automatically.
- High quality math typesetting.

Program Inclusion Program file present in other directory can be embedded into the report.

```
; Addition of two 8 bit numbers
ORG 0000H   ; Starting address of the program
MOV R1,#10H ; First number
MOV R2,#20H ; Second number
MOV A,R1    ; Input first number from R1 to A
MOV B,R2    ; Input second number from R2 to B
```

```
ADD A,B      ; Add A and B
MOV R3,A     ; Store the result in R3
RET
```

Verbatim Text Include text as it is.
The additional database schema is shown below which is used to store all the configuration and transaction data.

```
CREATE TABLE ‘controller_config‘ (
‘load_id‘ int(11) NOT NULL,
‘ct_constant‘ double DEFAULT NULL,
‘pt_constant‘ double DEFAULT NULL,
‘samples‘ int(11) DEFAULT NULL,
‘delay‘ double DEFAULT NULL,
PRIMARY KEY (‘load_id‘)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
SELECT * FROM loadcontroller.load_details;
```

Chapter 5

RESULTS, DISCUSSIONS AND CONCLUSIONS

Here, the results of the project work (literature survey and review along with actual work) shall be listed and discussed in detail with appropriate arguments (result analysis) leading to logical conclusions. The list of conclusions should sync with the project objectives. The scope for future research and development in the field of the current project work must also be included in this chapter.

5.1 Results & Analysis

5.2 Comparative Study

5.3 Discussions

5.4 Conclusions

Conclusion should be on new page and the same should come here.

5.5 Scope for Future Work

Future scope should be on new page and the same should come here.

Bibliography

[1] C. Brusaw, C. Aired, and W. Oliu, *Handbook of Technical Writing*, 3rd ed. New York: St. Martin's Press, 1987.

[2] S.K. Kenue and J.F. Greenleaf, "Limited angle multifrequency diffiaction tomography," *IEEE Trans. Sonics Ultrason.*, vol. SU-29, no. 6, pp. 213-2 17, July 1982.

[3] P.M. Morse and H. Feshback, *Methods of Theoretical Physics*. New York: McGraw Hill, 1953.

[4] S.K. Kenue and J.F. Greenleaf, "Limited angle multifrequency diffiaction tomography," *IEEE Trans. Sonics Ultrason.*, vol. SU-29, no. 6, pp. 213-2 17, July 1982.

[5] M.M. Botvinnik, *Computers in Chess: Solving Inexact Search Problems*. Translated by A. Brown, Berlin: Springer-Verlap, 1984.

[6] G.J. Broadhead, "Style in technical and scientific writing." In M.G. Moran and D.Joumet, eds. *Research in Technical Communication. A Bibliographic Sourcebook*, pp. 379-401. Westport. CT: Greenwood Press, 1985.

[7] M.M. Botvinnik, *Computers in Chess: Solving Inexact Search Problems*. Translated by A. Brown, Berlin: Springer-Verlap, 1984.

[8] Interview [or Personal Communication] with Prof. Elmer Hixon, BCE Department, The University of Texas at Austin, March 12, 1995.

[9] *Handbook for Writing Operation and Maintenance Manuals.* Washington, D.C.: Packaging Machinery Manufacturers Institute, 1973.

[10] *Interface Circuits Data Book*, Texas Instruments, Austin, Texas, 1993.

[11] *User's Guide: Microsoft Word,* Vers. 5.0, Microsoft, 1991.

[12] "Sonar," *Encyclopaedia Brittanica*, 1984 ed.

[13] A.D. Pearson, J.B. MacChesney, and W.G. French, "Fiber optics," in *Encyclopedia of Semiconductor Technology*, M. Grayson, Ed., New York: John Wiley & Sons, 1984.

[14] "Greyhound," *Brittanica Online*, Beta Version 96.1, March 1996.

[15] J. K. Jones, *Lab Notes for EE464K, Senior Projects*, The University of Texas at Austin, fall semester, 1994.

[16] B. Tsikos, "Segmentation of 3-D scenes using multi-modal interaction between machine vision and programmable mechanical scene manipulation," Ph.D. dissertation, Univ. of Pennsylvania, BCE Dept., Philadelphia, 1987.

[17] R. Finkel, R. Taylor, R. Bolles, R. Paul, and J. Feldman, "An overview of AL, programming system for automation," in *Proc. Fourth Int. Joint Conf Artif. Intell.*, pp. 758-765, Sept. 3-7, 1975.

[18] L.O. Norman, U.S. Patent 4 379 752, 1983. [Title of patent may be included.]

[19] "Technology threatens to shatter the world of college textbooks, *The Wall Street Journal*, vol 91, pp. Al, A8, June 1, 1993.

[20] *Basic Facts about Patents*. Washington, D.C.: Government Printing Office, 1989.

[21] R. Cox and J. S. Turner, "Project Zeus: design of a broadband network and its application on a university campus," Washington Univ., Dept. of Comp. Sci., Technical Report WUCS-91-45, July 30, 1991.

[22] Letter from J. M. Beck, Project Manager, TI, Bedford, Utah, Sept. 3, 1996.

[23] M. Janzen, *Instant Access Accounting*. Computer software. Nexus Software, Inc IBM-PC, 1993.

[24] AIDS Info BBS. [San Francisco (CA): Ron Gardner]. Available from: 415-626-1246.

[25] R. Duncan, "An HTML primer," *PC Magazine*, June 13, 1995, v14, n11 p. 261(7) in Academic Index (database on UTCAT PLUS system).

[26] R. Berdan and M. Garcia, *Discourse-Sensitive Measurement of Language Development in Bilingual Children* (Los Alamitos, CA: National Center for Bilingual Research, 1982) (ERIC ED 234 636).

[27] Fuminao Okumura and Hajime Takagi, “Maglev Guideway On the Yamanashi Test Line,” *http://www.rtri.or.jp/rd/maglev2/okumura.html,* October 24, 1998.

[28] “AT&T Supplies First CDMA Cellular System in Indonesia,” *http://www.att.com/press/1095/951011.nsa.html*, Feb 5, 1996.

PUBLICATION DETAILS

S.K. Kenue and J.F. Greenleaf, “Limited angle multifrequency diffiaction tomography,” *IEEE Trans. Sonics Ultrason*., vol. SU-29, no. 6, pp. 213-2 17, July 1982.

Appendix A

Appendix A Title

Since the chapters are numerically numbered, the appendices shall be numbered using alphabets (English capital letters). The items that can be inserted as appendices are (list is not exhaustive):

- Project synopsis or proposal (if submitted before starting the project)
- Photos
- Software model analysis reports (these shall not be inserted in the main body of the report)
- Project schedules
- Selected material from the data collected
- Miscellaneous analysis and reports

A.1 Appendix A Section 1

A.1.1 Appendix A Subsection for Section 1

A.2 Appendix A Section 2

Appendix B

Appendix B Title

B.1 Appendix B Section 1

B.2 Appendix B Section 2

B.3 Appendix B Section 3

Index