

**DEVELOPMENT OF A REMOTE CONTROLLED
LIGHT SWITCHING SYSTEM**

Undergraduate Design Project
Submitted to the Faculty of the
College of Engineering and Information Technology
Cavite State University
Indang, Cavite

In partial fulfilment
of the requirements for the degree
Bachelor of Industrial Technology
Major in Electrical Technology

JESUS P. BAÑADERA JR.
JAKE A. VENUS
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Republic of the Philippines
CAVITE STATE UNIVERSITY
Don Severino de las Alas Campus
Indang, Cavite
☎ (046) 4150-010 / (046) 4150-013 loc 206
www.cvsu.edu.ph

COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

Department of Industrial Engineering and Technology

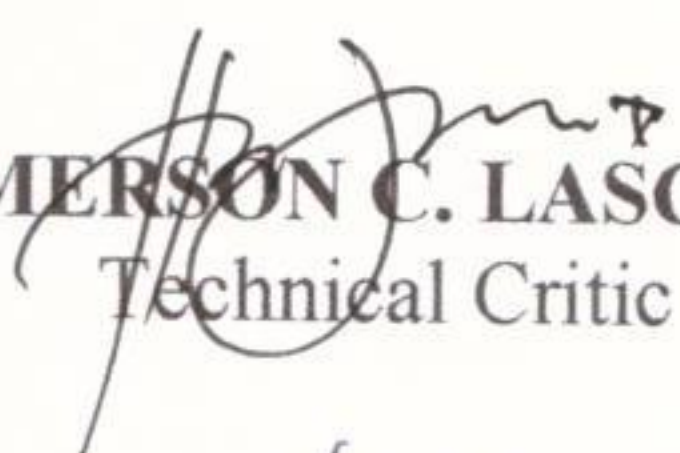
AUTHORS: JESUS P. BAÑADERA JR. and JAKE A. VENUS

TITLE: DEVELOPMENT OF A REMOTE CONTROLLED LIGHT SWITCHING SYSTEM


APPROVED:


DANIELITO R. ESCAÑO
Adviser

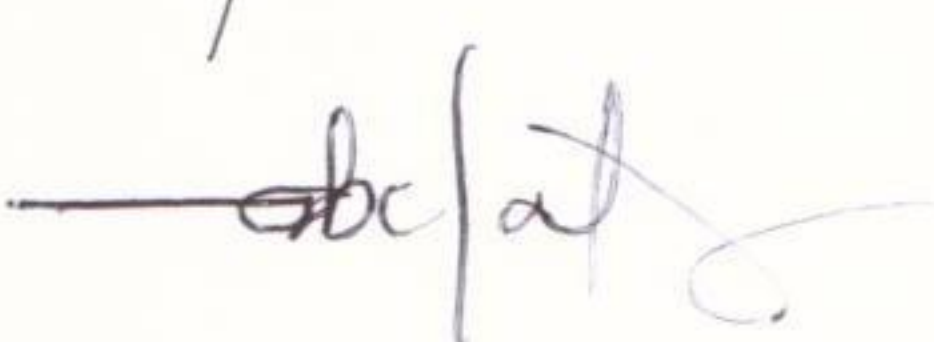
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EMERSON C. LASCANO
Technical Critic

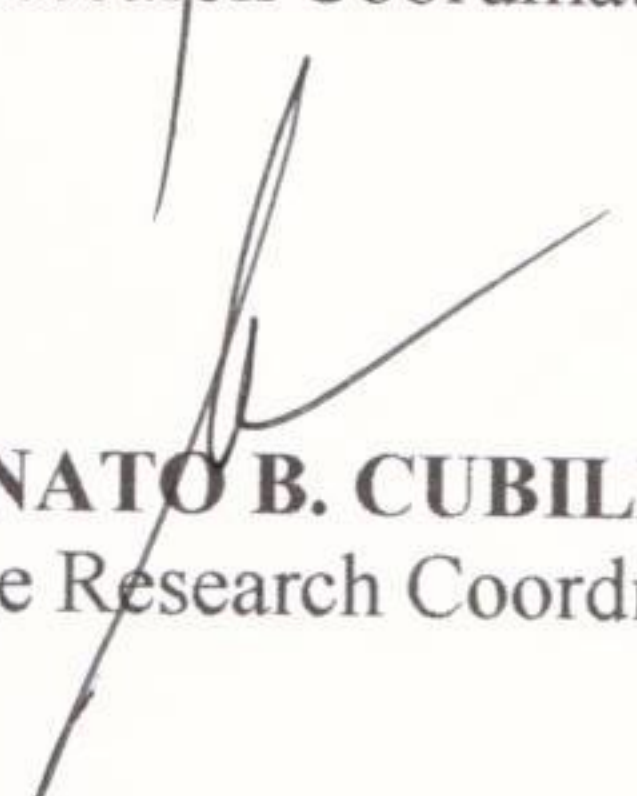
05/08/17
Date


GERRY M. CASTILLO
Unit Research Coordinator


Date


WILLIE C. BUCLATIN
Department Chairperson


Date


RENATO B. CUBILLA
College Research Coordinator

Date


MARILYN M. ESCOBAR
Dean

Date


HOSEA dL. MATEL
Director for Research

Date

SEP 20 2017

ABSTRACT

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Lighting system are widely used both indoor and outdoor area in a commercial, industrial, and residential spaces. The lighting control systems serve to provide the right amount of light where and when it is needed in a certain area. In recent decades technological development is increasingly automated function and allows integration of device into larger, more flexible system. Remote control is a device that process or a system that makes it possible to control something by distance using electric signals. Remote Controlled lighting system, it has role in lighting system that provides function of turning the light on and off.

The study was conducted from January 2017 to March 2017 at City of Dasmariñas, Cavite and constructed at Department of Industrial Engineering and Technology Building, Cavite State University, Indang, Cavite. The main objective of the study is to develop a remote controlled light switching system. Specifically, this study aimed to: 1.this is repair and replace the existing lighting system in the Automotive Technology section. 2. This is upgrade the control switching Technology using remote control for the lighting system of the Automotive technology section. 3. this is improve the lighting system using remote controls. 4. this is provide a diagram and schedule of loads showing the principles and system of technology to be used as reference for future electrical technology and engineering students. 5. test and evaluate the developed remote

controlled light switching system for acceptability, functionality; and 6. conduct cost analysis.

After construction and installation the project was evaluated inside the Automotive Technology Section, Department of Industrial Engineering and Technology (DIET) building, CvSU, Indang, Cavite. It was composed of modem that serve as an receiver of command, remote control as an transmitter of command to light switching system. The social acceptability of the designed project was evaluated in accordance to its functionality, workability, durability and safety. The total mean of the entire criteria was 4.87, which is interpreted as "Outstanding". The total cost of the study amounted to P9,601.

TABLE OF CONTENTS

	Page
APPROVAL SHEET	ii
BIOGRAPHICAL DATA	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	vi
LIST OF TABLES	x
LIST OF FIGURES	xi
LIST OF APPENDIX FIGURES	xii
LIST OF APPENDICES	xiii
INTRODUCTION	1
Statement of the Problem	2
Objectives of the Study	2
Significance of the Study	3
Scope and Limitation of the Study	3
Time and Place of the Study	4
Definition of Terms	4
REVIEW OF RELATED LITERATURE	6
METHODOLOGY	13
Materials	13
Methods	14
Mapping of Existing Design.....	14
Computation of Electrical Loads	15

Design of Electrical Circuit Connection	16
Check and replace Existing Light and Switches.....	17
Development of the Modem as Switching Controller.....	17
Testing and Evaluation	18
RESULTS AND DISCUSSION	20
Project Structure	20
Reality of the Project	25
Testing and Evaluation	27
SUMMARY, CONCLUSION, AND RECOMMENDATIONS	30
Summary	30
Conclusion	31
Recommendations	31
REFERENCES	32
APPENDICES	34

LIST OF TABLES

Table		Page
1	List of materials.....	13
2	Schedule of loads.....	14
3	Modem A, schedule of loads	15
4	Modem B, schedule of loads	16
5	The total result of evaluation form	27
6	Range of mean.....	27
7	Summary of the result and evaluation	28
8	Cost computation.....	29

LIST OF FIGURES

Figure		Page
1	Principle of transmitter and receiver	7
2	Mechanical operation of a relay	9
3	The Diagram shows an inner section diagram of a relay	10
4	Block Diagram of the design project	16
5	Fabrication of chassis	17
6	Assemble of components	18
7	Testing and evaluation	19
8	Floor plan	20
9	Lighting layout	21
10	Controls of design project	21
11	Branches relay of the modem	22
12	Lighting layout of Modem A	22
13	Lighting layout of Modem B	23
14	DPDT switch connection	23
15	Location and position of modem	24
16	Connection of a relay in lighting system	25
17	Remote function	26

LIST OF APPENDIX FIGURES

Appendix Figures	Page
1 The authors	36
2 Assembly of the casing	37
3 Flat bar being painted	38
4 Testing of component	39
5 Modem installation	40

LIST OF APPENDICES

Appendix		Page
1	Appendix Figures	35
2	Evaluation	41
3	Student Forms	71