

FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA TERENGGANU

FINAL REPORT OF DIPLOMA PROJECT

WIRELESS LAMP

MAC 2013

MUHAMMAD MUDDATHSIR BIN MUHAMAD RUZLAN 2010895976

NUR FAHIZAH BINTI MAHAT 2010450014

FATEN AYUNEE BINTI SAMAT 2010858338

EN MUHAMMAD SUHAIMI BIN SULAIMAN

“I declare that this report entitled “*your title*” is the result of my own group research except as cited in the references. The report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.”

Signature :..
Name :
Date :

Signature :..
Name :
Date :

Signature :..
Name :
Date :

ACKNOWLEDGEMENT

All praise to Allah S.W.T, most gracious, most merciful – peace and blessing of Allah upon his last messenger, Prophet Muhammad S.A.W. who has shown us the right way through the darkness of ignorance and kufr.

Special thanks to our supervisor, En Mohd Suhaimi b. Sulaiman for his support and guidance to us. Without him our project would not be finish and thank you also for his willingness to give idea and share his thought to help with the progress of our work.

Special thanks also to all friends and lecturers from Faculty of Electrical Engineering for their suggestion and opinion that help us a lot by giving us idea and motivation allowing us to improve our project and solve our problems. Thank you also to all of panels that give graded our work and also giving guidance. We also want to give our thanks' to Lab Technician that give us permission, help and guide us on making our PCB. Thank you also to our coordinator for EE358, Madam Siti Aishah Che Kar that gives us guide and helps on completing our report.

So thank you again to all the people that get involved in finishing our final report and project.

ABSTRACT

As a result of scientific and technological advancement, more products were designed to make the world a better place to live. In this project, entitled, "Wireless lamp" is a device that uses RF signal which is capable of controlling appliances within a range of 400 feet. The basic concept of using RF is to transmit a signal from a transmitter to a receiver. In our project, a remote control transmitter and receiver system has been designed for home appliances such as a lamp. The on/off remote control device will produce an RF signal that will be transmitted to the receiver. As a result, the received signal will turn the appliances on and off.

TABLE OF CONTENTS

CHAPTER	CONTENTS	PAGE
	DECLARATION	ii
	DEDICATION	iii
	ACKNOWLEDGEMENTS	iv
	ABSTRACT	v
	ABSTRAK	vi
	TABLE OF CONTENTS	vii
	LIST OF TABLE	ix
	LIST OF FIGURE	x
	LIST OF SYMBOL	xii
	LIST OF ABBREVIATIONS	xiii
	LIST OF APPENDIX	xiv
1	INTRODUCTION	
	1.1 Introduction	1
	1.2 Problem Statements	1
	1.3 Objectives	1
	1.4 Scope	2
2	LITERATURE REVIEW	
	2.1 Background of Invention	3
	2.2 Hardware and Component	4