

Universiti Teknologi MARA

Intelligent Lamp System

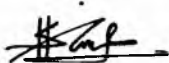
Norshahida Binti Abd Karim

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DECLARATION

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.



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NORSHAHIDA BINTI ABD KARIM

2011471778

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ABSTRACT

Many people nowadays concern about the technology that can help or make their life easier especially at home. This project is about an Intelligent Lamp System, which capture an image using a LinkSprite JPEG Color Camera after receiving a signal from Long Analog Distance Sensor, process it, store the image and then turn LED on. A prototype of the lamp assistance system based on the proposed architecture was constructed here. The adopted hardware, software and implementation solutions in this prototype construction are described in this project. The effective image processing technique is used which is to convert hex code into a JPEG image. The design of home model by using AutoCAD and SketchUp software is also described in this project.

TABLE OF CONTENTS

CONTENT	PAGE
SUPERVISOR'S APPROVAL	ii
DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF FIGURES	viii
LIST OF TABLE	ix
CHAPTER 1 : INTRODUCTION	
1.0 Introduction	1
1.1 Background of Study	1
1.2 Problem Statement	2
1.3 Project Objective	3
1.4 Project Scope	3
1.5 Project Significant	4
1.6 Conclusion	4
CHAPTER 2 : LITERATURE REVIEW	
2.0 Introduction	5
2.1 Intelligent Lamp System	5
2.2 Arduino Uno R3	6
2.3 LinkSprite JPEG Color Camera TTL Interface	7
2.4 Long Analog Distance Sensor	7
2.5 Image Processing	8
2.6 Hex Converter	11
2.7 Conclusion	12
CHAPTER 3 : METHODOLOGY	
3.0 Introduction	13
3.1 Framework Overview	13
3.2 Research Framework	16
3.2.1 Information Gathering	17

3.2.2	Data Collection	17
3.2.3	Processing Data	17
3.2.4	The Flow of the System	18
3.2.5	Intelligent Lamp System	19
3.3	Method	19
3.3.1	Image Processing	19
3.4	Conclusion	20
CHAPTER 4 : IMPLEMENTATION		
4.0	Introduction	21
4.1	Circuit Design	21
4.1.1	Arduino Uno R3	22
4.1.2	LinkSprite JPEG Color Camera	24
4.1.3	Long Analog Distance Sensor	24
4.1.4	LED	25
4.1.5	USB Cable	26
4.2	Burning Process	28
4.3	Model Design	30
4.4	Hardware and Software Specification	34
4.5	Conclusion	35
CHAPTER 5 : RESULT AND FINDING		
5.0	Introduction	36
5.1	Project Design	36
5.2	Project Coding	39
5.3	Result	43
CHAPTER 6 : CONCLUSION		
6.0	Introduction	45
6.1	Project Conclusion	45
6.2	Project Strengths	46
6.3	Project Weakness or Limitation	47
6.4	Future Works	47
6.5	Conclusion	47
REFERENCES		49