

Table of Contents

Acknowledgement.....	i
Abstract.....	ii
Table Of Contents.....	iii
List Of Figures.....	vi
List of Abbreviations.....	viii
Chapter 1 Project Overview.....	01
1.1 Introduction.....	01
1.2 Objectives.....	01
1.3 System Specifications.....	02
Chapter 2 System Overview.....	03
2.1 Modules.....	03
2.1.1 Raspberry Pi.....	03
2.1.2 Microcontroller Atmega328P.....	04
2.1.3 Passive InfraRed (PIR) Sensor.....	05
2.1.4 LM35 Temperature Sensor.....	06
2.1.5 Real-Time Clock (RTC-DS1307) module.....	07
2.2 Systems.....	07
2.2.1 Adaptive Internal Lighting system.....	07