Contents

1. INTRODUCTION 1

1.1. LITRATURE SURVEY 1

1.2. AIM &OBJECTIVE 1

2. Working Principle and Functional 3

Description 3

2.1. Block Diagram 3

2.2. Description of Block Diagram 3

2.1.1 Microcontroller 3

2.1.2 GSM Module 4

2.1.3 Bluetooth Module 4

2.1.4 Stepper Motor 4

2.1.5 IR Sensor Module 4

2.1.6 Buzzer 4

2.1.7 LCD 4

2.1.8 Relay 4

2.3. List of Components 4

2.4. Description of Components 5

2.1.9 At89S52 5

2.1.10 Sim800c GSM module 7

2.1.11 HC-05 Bluetooth Module 9

2.1.12 28byj-48 Stepper Motor 10

2.1.13 ULN2003 12

2.1.14 IR Sensor Module 12

2.1.15 Buzzer 13

2.1.16 LM 7805 13

2.1.17 LCD 14

2.1.18 Relay 15

2.1.19 BC547 BJT 16

3. Implementation Details 17

3.1. Schematic Diagram and its description 17

3.1.1 Schematic Description 18

3.1. Software Description 18
3.1.2 Proteus 18
3.1.3 Keil µVison-3 18
3.2. Flow Chart 19
3.1.4 Flow Chart Description 20
4. Simulation and Testing 21
6.1. Work Plan 21
6.2. Simulation 21
6.3. Testing 21
5. Results and Conclusion 23
7.1. Results 23
7.2. Application 23
7.3. Limitation 23
7.4. Scope of Improvement and Modification Possibilities 24
7.5. Conclusion 24
6. Pin Diagram and Description 25
8.1. LM 7805 25
8.2. Transistor 547B 25
8.3. ULN2003 26
8.4. HC-05 26
8.5. LCD 26
8.6. GSM Module 27
8.7. IR Sensor 28