**List of Figures**

Figure 2.1:- Raspberry Pi...................................................................................................03

Figure 2.2:- Microcontroller(Atmega328P).......................................................................04

Figure 2.3:- Passive InfraRed (PIR) Sensor.......................................................................05

Figure 2.4:- LM35 Temperature Sensor............................................................................06

Figure 2.5:- Real Time Clock (DS1307)............................................................................07

Figure 2.6:- Block Diagram...............................................................................................09

Figure 3.1:- Flowchart of Adaptive Internal Lighting System..........................................11

Figure 3.2:- Adaptive Lighting System Design.................................................................12

Figure 3.3:- Flowchart of Automatic External Lighting System.......................................13

Figure 3.4:- Automatic Lighting System Design...............................................................14

Figure 3.5:- Flowchart of Automatic Water Pump design.................................................15

Figure 3.6:- Automatic Water Pump System Design.........................................................16

Figure 3.7:- Flowchart of Password Enabled Door Lock System.....................................17

Figure 3.8:- Password Enabled Door Lock Design...........................................................18

Figure 3.9:- Flowchart of Interactive Music Player System..............................................19

Figure 3.10 :- Interactive Music Player System.................................................................20

Figure 3.11 :- Power Supply Design..................................................................................21

Figure 3.14 :- Flowchart of RTC System...........................................................................22