**LIST OF FIGURES**

**Figure Name Page no**

Figure 1.1: Embedded System model 02

Figure 1.2: Block diagram 03

Figure 1.3: IR Sensor 05

Figure 2.1: LPC 2148 Block diagram 09

Figure 2.2: Data register 11

Figure 2.3: CPSR Register 12

Figure 2.4: UART Block diagram 16

Figure 2.5: RTC Block diagram 19

Figure 2.6: Fire sensor circuit 21

Figure 2.7**:** Block diagram of IR circuit27

Figure 2.8: Vibrator sensor 29

Figure 2.9: Smoke Sensor 30

Figure 2.10: Block diagram of DC motor 33

Figure 3.1: Block diagram of power supply 44

Figure 3.2: schematic diagram of power supply 45

Figure 3.3: Electric Transformer 45

Figure 3.4: Bridge rectifier 48

Figure 3.5: operation during positive cycle 49

Figure 3.6: operation during negative cycle 49

Figure 3.7: Resistor 54

Figure 3.8: LCD Interface 60

Figure 3.9: IR LED 61

Figure 5.1: Space Segment 77

Figure 5.2: control segment 79

Figure 5.3: User segment 81