**List of Figures**

**S.No.**  **Name**  **Page No.**

1 Midi Controller 6

2 Digital and analog equivalents 7

3 An analog signal is continuous in nature 8

4 A digital signal 8

5 Discrete time sampling 9

6 Physical Representation Of Resistor 24

7 Color Coding Of Resistor 25

8 Prototype PCB 26

9 Atmega8 Microcontroller Architecture 28

10 ATMEGA8 PINS 29

11 Ceramic Capacitor 30

12 IC Sockets 32

13 Female Connector 33

14 Wire Bnad 34

15 An Ac Waveform 35

16 A DC Waveform 35

17 Block Diagram Of A Power Supply System 36

18 5V Regulated Power Supply 37

19 Circuit 38

20 Circuit Diagram 39

21 Soldering 40

22 Wiring 41

23 Arduino Programmer 44

24 Serial MIDI Converter 68

25 FL Studio 10 69