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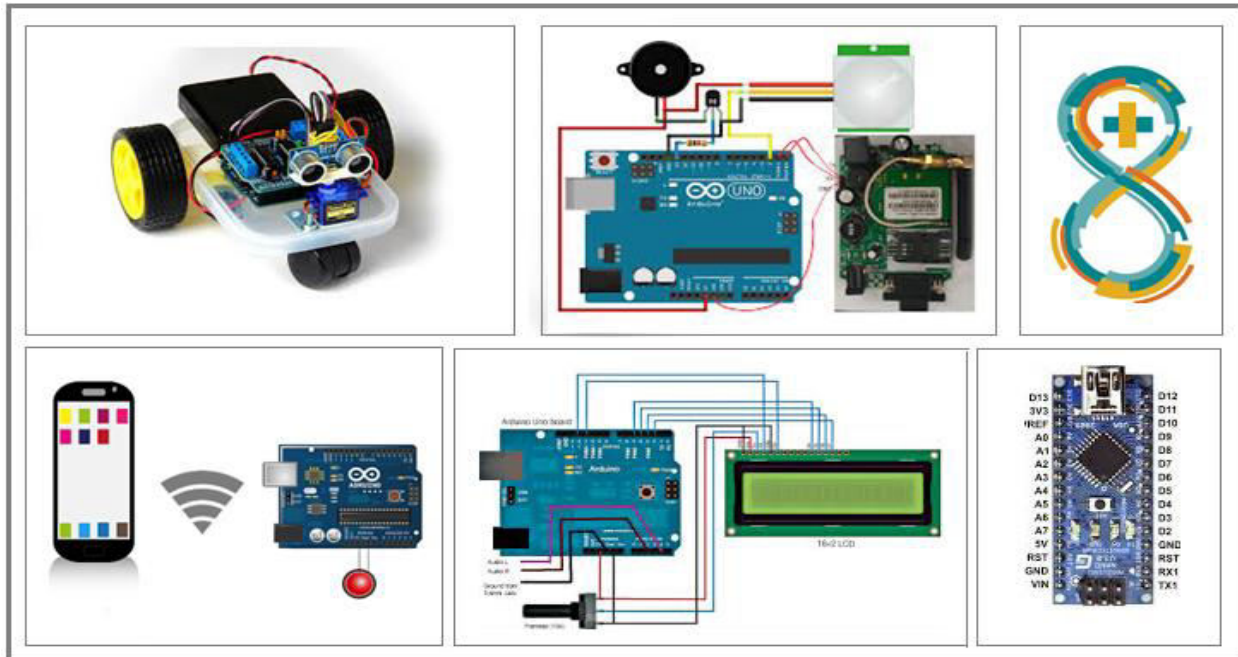
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We Guarantee You that, You Can Develop Your
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Practical & Professional Training on Arduino

Course Syllabus

Chapter 1

- 1.1 Introduction to Embedded System with Arduino
- 1.2 Scope of Arduino in Embedded Systems

Chapter 2

- 2.1 Introduction to Arduino series
- 2.2 Hardware architecture of Arduino controller Series
- 2.3 Controller I/O ports
- 2.4 Memories of controller
- 2.5 Concept of Serial communication ,Interrupt etc.



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Chapter 3

3.1 Introduction of Embedded Arduino Software

3.2 Introduction of Embedded C Programming and programming concepts for Arduino

3.3 Introduction of program flashing and error correction

Chapter 4

4.1 I/O interfacing concept

4.2 Led Blinking logic and delay generation routine

Chapter 5

5.1 Character LCD 16x2 interfacing logic and concept

5.2 Introduction of LCD command and data signals

5.3 LCD based programming



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5.4 Practical project based on character LCD

Chapter 6

6.1 Matrix keypad interfacing logic and concept

6.2 Introduction of key pad interfacing using polling method

6.3 Matrix keypad programming

6.4 Practical project based on matrix keypad

Chapter 7

7.1 Introduction to serial communication

7.2 Serial communication concept

7.3 Introduction of serial communication firmware and registers

7.4 Serial communication programming

7.5 Practical application based on Serial communication



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Chapter 8

8.1 Introduction of interrupts in controller

8.2 Interrupt logic and concept

8.3 Interrupt routines / programming

8.4 Key interfacing using interrupt

8.5 Practical application based on interrupt

Chapter 9

9.1 Introduction of ADC

9.2 ADC interfacing

9.3 ADC programming



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Chapter 10

- 10.1 Introduction of DTMF mobile technology
- 10.2 DTMF technology interfacing in real application
- 10.3 DTMF programming
- 10.4 Practical project design based on DTMF technology with Arduino

Chapter 11

- 11.1 Introduction to RF & RFID communication
- 11.2 RFID technology interfacing in real application
- 11.3 RFID module programming
- 11.4 Practical project design based on RFID technology with Arduino



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Chapter 12

12.1 Introduction of I2C Protocol

12.2 I2C protocol interfacing in real application

12.3 I2C module programming

12.4 Practical project design based on I2C protocol with Arduino

5 Projects Design

1. Gas Leakage Detection

2. Universal Appliance Control System

3. Security System against Theft

4. Traffic Light Control

5. Notice Board



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Contact Us

Contact Number

- 9224301650 (Whats App)
- 022- 62390060

Email Id

info@embeddedtechnosolutions.com

embeddedtechnosolutions@gmail.com

Website

www.embeddedtechnosolutions.com

Our Other Ventures

www.onlineprojectexhibition.com

www.ijtp.com