



## Become a Hackveda Certified Embedded Professional - (Beginner - Expert)

**Skill level:** Beginner - Expert

**Training fee:** INR 21999 only (Topics covered: 88)

**Chief Trainer:** [Mr. Devanshu Shukla](#)

**Training Duration:** 44 days (3 hrs per day) | 66 days (2 hrs per day) | 132 days (1 hr per day)

**Presentation or Examination will be conducted within** 44 days from date of training completion.

\* Please note examination will be conducted after completion of training.

**Maximum examination attempts:** 03

**Minimum passing marks for certification and placement:** 90%

**Query Membership:** 01 year (Online / Offline)

**Spoken Language:** English / Hindi

**Venue:** Hackveda, H-3/60, III Floor, Sector-18, Rohini, Delhi-110089

**Contact person:** Mr. Yash Sharma, Software Engineer, Hackveda

**Contact phone:** 011-27297608, +91-9654825370, +91-9891799066

**Registration link:** [Register Now](#)

**Hackveda One2One Support Available:**

Training session video will be recorded and delivered to students via our Digital Learning platform [Hackveda One2One](#) for any time, any where learning and practice.

**Join the training at Hackveda 'TODAY' !**

**Course contents**

Microcontroller Programming using Atmega-328 microcontroller & C.

Burning Boot loader Program to microcontroller with hardware designing circuit

Implementation of USB to Serial chip on a custom design board.

Serial Data Communication with your designed board and Computer via Programming using C#.NET

Interfacing of LED & Audio Buzzer for Different Application using Atmega-328 microcontroller with programming.

Interfacing of Seven Segments Display for Different Application using Atmega-328 microcontroller with programming.

Interfacing of LCD for Different Application using Atmega-328 Microcontroller with programming.

Interfacing of Analog to Digital Convertor Circuit to microcontroller with programming.

Interfacing of Keypad to microcontroller.

Interfacing Temperature sensor on your custom board

Interfacing Gas Sensor on your custom board

Interfacing Flame Sensor on your custom board

Interfacing Alcohol Sensor on your custom board

Interfacing of RFID module to read and write the tag information to microcontroller

Interfacing of Bluetooth module to microcontroller to sending and receiving data wirelessly

Interfacing of Secure Digital card (SD-card) to microcontroller and storing, reading and writing the data from SD-card to MCU.

Development of Android application to operate your custom board via Bluetooth

Development of Windows 10 cross platform application to operate your custom board via bluetooth

Development of Home Automation System to operate Home Appliances by your Custom Board

Development of Automatic Object Detection and Path Selection Multi Tasking Robot

Interfacing of Ethernet Port to microcontroller.

Interfacing of RS-232 female connector to Microcontroller with the help of Max232 IC.

Interfacing of PI-2303 prolific ic to Microcontroller.

Interfacing of Global positioning System (GPS) to microcontroller.

Interfacing of Global System for Mobile (GSM) to microcontroller.

Interfacing of Motor Driver IC to drive motor with microcontroller.

RF- Communication to long range of data transmission and receiver through microcontroller.

Hardware Connection of SIM Card to microcontroller.

Interfacing of Battery on board for stand-alone systems.

Interfacing Zigbee wireless communication.

Odroid ARM Cortex - A9 Quad Core processor

Develop a Hand Held Computer with Three Inch Thermal Printer for Spot Billing and Banking

Hands on with Hand Held Data Recorder with Built in Barcode Scanner, Infra-red, GPS, Fingerprint Scanner - Part 1

Hands on with Hand Held Data Recorder with Built in Barcode Scanner, Infra-red, GPS, Fingerprint Scanner - Part 2

Hands on with Bluetooth thermal and impact printer - Part 1

Hands on with Bluetooth thermal and impact printer - Part 2

Hands on with Hand held computer with integrated multi spectral finger print sensor and two inch impact printer - Part 1

Hands on with Hand held computer with integrated multi spectral finger print sensor and two inch impact printer - Part 2

Hands on with Spoof Detection and Touch Precision Hand held computer - Part 1

Hands on with Spoof Detection and Touch Precision Hand held computer - Part 2

Internet of Things: History of IoT

Internet of Things: Characteristics of IoT Systems

Internet of Things: IoT Protocols

Internet of Things: IoT Applications Overview

Internet of Things: Linux

Internet of Things: Introduction to IoT Operating Systems

Internet of Things: AllSeen and AllJoyn

Internet of Things: Industrial Applications

Internet of Things: Programming the Odroid Board Part 1

Internet of Things: Contiki

Internet of Things: Programming the Odroid Board Part 2

Internet of Things: Contiki

Internet of Things: TinyOS

Internet of Things: IoT Driving Forces

Internet of Things: Introduction to IoT

Internet of Things: Windows 10 IoT Core

Internet of Things: IoT Security Concerns

Internet of Things: Eclipse Kura

Internet of Things: Additional IoT Operating Systems

Internet of Things: Connected Homes and Home Automation

Internet of Things: IoT and the Internet

Internet of Things: Programming the Arduino

Internet of Things: Programming the Raspberry Pi

Internet of Things: Programming the Custom Board

Internet of Things: Control LEDs with the Custom Board

Internet of Things: Supported Arduino Accessories

Internet of Things: Introduction to Raspberry Pi

Internet of Things: RPi Variants

Internet of Things: Supported accessories

Internet of Things: Eclipse Mihini

Internet of Things: Promise of IoT

Internet of Things: Building an App for Windows 10 IoT Core

Internet of Things: RIOT

Internet of Things: IoTivity

Internet of Things: Custom Board Introduction

Internet of Things: Introduction

Internet of Things: ESP8266 Introduction

Internet of Things: Supported Custom Board Accessories

Internet of Things: BeagleBone Introduction

Internet of Things: BeagleBone Variants

Internet of Things: Odroid Board Variants

Internet of Things: Custom Board Variants

Internet of Things: Supported BeagleBone Accessories

Internet of Things: Exercise: Create a small program for the Arduino

Internet of Things: Exercise: Create a simple app on the Raspberry Pi

Internet of Things: Programming the ESP8266

Internet of Things: Programming the BeagleBone

Internet of Things: Introduction to Arduino

## How to Join

- 1.) Register your name online at [Register Now](#)
- 2.) Deposit your training fee via IMPS / NEFT / PAYTM / Google Tez / Phone Pe or Cash Deposit at Training Centre
- 3.) Send snapshot / transaction number via Whatsapp to +91-9654825370 or Email us at admin@hackveda.in
- 4.) Bill will be generated and sent to your Email ID, Hackveda One2One account details will also be sent via sms and email. You can also collect Hackveda One2One account details from training centre.

## Bank Details for IMPS / Paytm to Bank / NEFT / ATM - Cash Deposit

Name: Devanshu Shukla

Account Number: 55142333064

Bank Name: State Bank of India

Branch: Rama Market, Pitampura

IFS Code: SBIN0050403

## Pay via PayTM / Google Tez / Phone Pe

9654825370

## Optional Pre-requisites

Laptop & Charger, 4GB+ Pendrive, Headphones

## Training Centres

Hackveda - H-3/60, III Floor, Sector-18, Rohini, Delhi - 110089