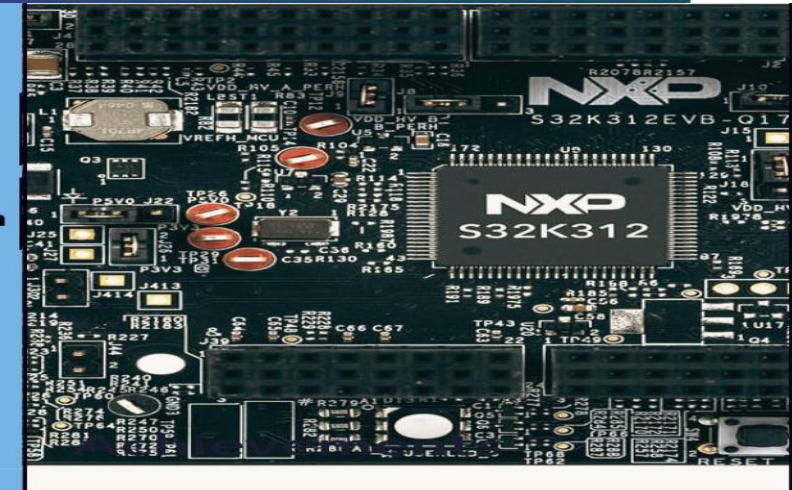


Unlock Your Future with Embedded System Innovation Lab



Contact Us

- +91-9773864270
- info@ilabtek.in
- www.ilabtek.in
- F-155, 5th Floor, NPX Urbtech Sector 153, Noida-201301



What We Offer?

- Advanced robotics and embedded systems training
- Corporate & customized training
- R&D and Innovation support
- Placement & career assistance



Our Mission- iLab

Our mission is to empower young minds to innovate, create, and lead.

- Deliver industry-relevant training
- Foster Innovation in EduRobo
- Bridge the skill gap
- Create a Strong Tek Community

Embedded Systems & Linux Training Program

Module-C

Prerequisites:- Basic understanding of programming.

Topics:-

- Introduction to C Programming
- Basics of C Language
- Control Flow Statements,
- Functions in C
- Arrays & Strings,
- Pointers in C
- Structures & Unions
- File Handling in C
- Advanced Concepts
- Data Structures in C
- Algorithms


Module-Firmware

Prerequisites:- C, C++ Understanding

Topics:-

- Introduction to Microcontrollers
- Microcontroller Architecture & Peripherals
- Microcontroller Programming & Development Tools
- Interfacing Peripherals with Microcontrollers
- Communication Protocols in Microcontrollers
- Power Optimization Techniques
- Hands-On Microcontroller Projects

we empower students to develop skills in science, technology, engineering, and mathematics from an early age.

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Noida-201310

Embedded Systems & Linux Training Program

Module-System Programming

Prerequisites:- C, Data Structure, Linux/Unix basic command

Topics:-

- Introduction to Linux OS Architecture
- GNU Toolchain, Operating Systems Concepts
- File operations
- Linux Process Implementation
- Signals
- POSIX Threads
- Synchronization Mechanisms
- IPC Mechanisms
- Socket Programming.

Module-Device Driver

Prerequisites:- C, Data Structure, System Programming

Topics:-

- Linux Driver Architecture
- Char Driver Model
- DMA Hardware Access
- Interrupt Handling
- Drivers(I2C, SPI, GPIO)
- USB Drivers
- PCI/PCle Drivers
- Block Driver
- Network Driver

Embedded Systems & Linux Training Program

Module-Yocto BSP

Prerequisites:- C, Data Structure, System Programming, Device-Driver

Topics:-

- Introduction to Embedded Linux
- Introduction to Yocto Project
- Classes, Layers and Recipes
- BSP Layers(Kernel, Uboot, FS)
- SDK, Images
- Deployment and Test

Hands-on live projects-Gain practical experience in IOT and Automation.

Internship Details:-

Duration:- 3 to 6 months

Location:- Noida / Bangalore

The total course fee is ₹35K, inclusive of GST

Each participant will be provided with structured interview preparation materials and live mentoring sessions.

Ensuring 100% placement support.

Where Our Embedded System Trainees Work

Our Embedded System trainees are successfully placed in leading companies such as HCL, Embchips, Bosch, Embitel, Continental, KPIT, L&T, Harman, VVDN, and many more.

