



## **Embedded Systems Development Internship**

### **Overview**

The Embedded Systems Development Internship at Spizatech Electrifying Life Pvt. Ltd. is a hands-on program aimed at students, graduates, and professionals seeking practical experience in microcontroller-based system design. It bridges the gap between academic knowledge and industry requirements, preparing participants for careers in embedded technology.

### **Objective**

The internship focuses on embedded systems architecture, microcontroller programming, and real-time implementation using platforms like Arduino, ESP32, and STM32. Interns will work on circuit design, sensor interfacing, and embedded C programming.

### **Key Modules**

- Introduction to Embedded Systems
- Arduino & ESP32 Programming
- Sensor Integration (Digital/Analog)
- Timers, Interrupts, UART, I2C, SPI, RFID, Bluetooth and etc.
- Project Work

### **Outcomes**

Participants will independently design and test embedded systems, complete a project, and earn a certification—preparing them for roles in embedded development and IoT.