



We Are Hiring!

EMBEDDED SYSTEMS & IoT ENGINEER

- INNOVATION CONSULTING
- RESEARCH & DEVELOPMENT
- PROTOTYPE DEVELOPMENT
- START-UP INCUBATION
- MENTORSHIP
- VENTURE CREATION
- ENTREPRENEURSHIP
- HUMAN CAPITAL DEVELOPMENT

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Open Position: Embedded Systems & IoT Engineer

Location: Innov8 Hub, Abuja, Nigeria

Job Type: Full-time, Permanent, Onsite

COMPANY PROFILE

Innov8 Hub is a not-for-profit, non-governmental organization with a mandate to groom innovators, researchers, creatives, and venture creators. We strategically aid and collaborate with organizations and individuals seeking to transform their ideas into solutions.

JOB SUMMARY

We are seeking a proficient Embedded Systems & IoT Engineer to design, develop, deploy, and maintain embedded hardware and IoT-based solutions. The ideal candidate will have proven experience in circuit design, firmware development, sensor integration, wireless connectivity, and cloud integration for IoT platforms. The role requires hands-on engineering capabilities, strong problem-solving skills, and the ability to take embedded products from concept to production-ready systems.

KEY RESPONSIBILITIES

- Design, develop, and optimize embedded systems for real-time control, monitoring, automation, and data acquisition.
- Develop circuit schematics, PCB layouts, and hardware interfaces for embedded applications.
- Write, test, and optimize firmware for micro-controllers such as ARM, ESP32, STM32, AVR, etc.
- Integrate sensors, actuators, and communication modules into embedded platforms.
- Implement IoT connectivity using Wi-Fi, Bluetooth, GSM/4G/5G, LoRa, or other wireless protocols.

KEY RESPONSIBILITIES

- Interface embedded systems with cloud platforms for remote monitoring, analytics, and control.
- Conduct hardware and firmware debugging, testing, and validation.
- Ensure device reliability, low power consumption, and safety compliance.
- Collaborate with software and cloud teams on end-to-end IoT solution integration.
- Document designs, test results, and engineering changes for handover and future development.

REQUIRED QUALIFICATIONS & SKILLS

Education

- Bachelor's or Master's degree in Electrical/Electronics Engineering, Mechatronics, Computer Engineering, or related field with a minimum of two (2) years of hands-on experience.

Experience

- Strong proficiency in embedded system development and PCB design. Proficiency in firmware programming using C/C++ and Python.
- Experience with microcontrollers (e.g., ESP32, ARM Cortex, STM32, AVR, PIC, etc.).
- Hands-on experience with IoT communication protocols (MQTT, HTTP, CoAP, Modbus, etc.).
- Familiarity with cloud and IoT platforms (AWS IoT, Azure IoT, Google IoT Core, Blynk, Firebase, ThingsBoard, etc.).
- Experience in sensor/actuator interfacing, real-time data acquisition, and edge processing.
- Ability to troubleshoot hardware and firmware at component and system level.
- Strong understanding of electronics, embedded interfaces (UART, SPI, I2C, CAN), and power management.

PREFERRED SKILLS

- Experience with Real-Time Operating Systems (RTOS) such as FreeRTOS. Familiarity with cybersecurity concepts for IoT deployments.
- Knowledge of low-power design techniques and battery-powered embedded architectures.
- Experience in deploying IoT PoCs or production-level IoT devices.
- Exposure to industrial protocols such as CAN, RS-485, OPC-UA, or Ethernet/IP.

REMUNERATION

Salary Range – Open – Initially dependent on experience, thereafter on performance

HOW TO APPLY

Interested candidates are encouraged to submit their CVs and Cover letter to **hr@innov8hub.ng**.

