

Embedded Systems Intern Job Description

CircuitWorks Tech, Electown, ST

Position Overview

CircuitWorks Tech seeks an Electronics Communication Engineering student for an Embedded Systems Internship to develop and test firmware for IoT devices. This role offers exposure to real-time systems and hardware integration.

Responsibilities

- Develop firmware for microcontrollers using C and Embedded C.
- Test and debug embedded systems using oscilloscopes and logic analyzers.
- Integrate sensors and communication modules (e.g., Wi-Fi, Bluetooth) into IoT prototypes.
- Collaborate with hardware engineers to optimize system performance.
- Document code and prepare technical specifications.

Required Skills

- Proficiency in C, Embedded C, and microcontroller programming (e.g., Arduino, STM32).
- Familiarity with debugging tools like oscilloscopes and multimeters.
- Understanding of communication protocols (I2C, SPI, UART).
- Strong problem-solving and teamwork skills.

Qualifications

- Pursuing a B.S. in Electronics Communication Engineering (Sophomore or higher).
- GPA of 3.5 or above preferred.
- Coursework in Embedded Systems, Digital Electronics, and Microcontrollers.
- Experience with IoT projects is a plus.