



Job Attributes

JOB ID

7256

REQ ID

I644-18

CATEGORY

Engineering

JOB TYPE

Temporary

EDUCATION LEVEL

Some College Coursework Completed

JOB LEVEL

Student

HIRES NEEDED

1

JOB LOCATION

Heilbronn, Baden-Wurttemberg

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Application Engineer Student Intern Heilbronn, Baden-Wurttemberg

Company Description

Microchip Technology Incorporated is a leading supplier of field-programmable embedded control solutions by delivering a broad spectrum of innovative microcontrollers, analog, mixed-signal and security products, wired and wireless connectivity products, related non-volatile memory products and Flash-IP solutions.

Job Description

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The applications student intern will provide hardware and software support to senior level applications engineers within Microchip's Wireless Solutions Group (WSG). The goal is to make it easy for our customers to design products using Microchip's expanding family of highly integrated wireless radio receivers, transmitters, and transceivers that operate across the frequency spectrum of 125KHz to 8GHz. As skills allow, duties may include the following:

- Assist in development of schematic diagrams & PCB layouts for reference designs and standalone demos.
- Assist in development of firmware and GUIs for reference designs and standalone demos.
- Assist in development of test software & scripts for use in the production of Application Tool Kits.
- Prepare written documents such as application tool user guides & other documentation.
- Soldering of prototype reference designs and standalone demos.
- Testing and debugging of reference designs and standalone demos.

Job Requirements

MANDATORY SKILLS:

- Familiarity with C & C# software programming languages.
- Familiarity with RF receivers, transmitters, transceivers which operate from 315MHz to 8.0GHz.
- Familiarity with the design of 8 & 32 bit microcontroller based embedded systems and their development systems, especially FLASH & EEPROM programming tools.
- Familiarity with schematic entry & PCB layout tools such as Altium
- Experience with basic laboratory test & measurement devices such as oscilloscopes, multi-meters, DC power supplies, signal generators, arbitrary waveform generators, logic analysers, etc.
- Must possess excellent verbal and written skills including ability to write clear and concise technical documentation in English.
- Proficient in MSOffice including Outlook, Word, PowerPoint & Excel.
- Must possess an eager attitude toward learning new skills & technology.
- Ability to work in team environment.

PREFERRED SKILLS:

- Familiarity with languages such as Python, Java & LabVIEW.
- Familiar with automotive systems, hardware and software.
- Familiar with software, protocol stacks & layers used for wireless communication such as Bluetooth Low Energy, and IEEE 15.4.

-Familiar with software used in wireless communication modulation, encoding and encryption techniques such as OOK, ASK, FSK, GFSK, BPSK, Manchester, NRZ, AES & ECC.

-Familiar with software used in wired communication standards such as; USB, I2C, SPI, UART, CAN & LIN.

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