



Staff Embedded Software Engineer

Job description

Do you have the skillset to thrive in a high paced environment? If you have the skillset to match self development, system software, hardware, problem solving, and programming this will be the perfect opportunity! Apply here at Infineon today!

In your new role you will:

- Support Embedded system software design & development
- Design and Development of RTOS components, device drivers, power-management, Networking protocols, middleware components in various RTOS environments
- Design and development of IoT protocols, secure and non-volatile storage software and other middleware components that work on top of TCP/IP network stack in various RTOS based environments
- Design and implement software that helps IoT device to connect to IoT cloud servers
- Be responsible for integration and functional verification of the SW component
- Work with the System Test Engineers for fully automated asset test and validation
- Interact with marketing and cross functional teams and identifying requirements and convert them to design
- Own independent software feature and deliver quality software with junior engineers
- Mentor junior engineers and contribute to continuous improvements
- Demonstrate development, integration and functional verification of Embedded Software components and device drivers
- Demonstrate C programming, software design skills and OS concepts
- Demonstrate solving critical issues in previous projects
- Demonstrate knowledge in the area of IoT protocols, TCP/IP network stack, m-bed, TLS, crypto and audio development

Profile

You are best equipped for this task if you have:

- Experience in embedded system software design and development for resource constrained platforms
- Must understand OS concepts of: threads and process, IPC, DMA engines, interrupt handling, timers, race conditions, etc

At a glance

Location: **Portland, OR (United States)**
Job ID: **348707**
Start date: **Aug 29, 2022**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **348707**
www.infineon.com/jobs



- Domain knowledge & working experience with some of IO interfaces such as SDIO, UART, I2C, Flash, NVM etc
- Knowledge and working experience with ARM Architectures and popular RTOSes such as ThreadX, FreeRTOS etc
- Experience with RTOS components and device drivers
- Working knowledge of TCP/IP based networking stack and IoT protocols such as MQTT, AMQP, HTTP, CoAP, etc. is desired
- Working experience with mbed TLS, crypto, audio/voice and streaming middleware development is desired
- Strong analytical, diagnostic and problem solving skills. Familiar with embedded debugging
- Proficient in C/C++
- Proficient in RTOS, IPC, multi thread programming, socket programming
- Experience in Python, shell scripting
- Experience in Agile development methodology
- Excellent debugging skills and experience with using the tools such as JTAG, debuggers etc
- Experience with development tools such as GIT, JIRA, IAR and ARM C toolchains
- Knowledge of ARM processors
- Experience in development of IoT products and knowledge of Wi-Fi and Bluetooth/BLE

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

Cypress Semiconductor Corporation is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including pregnancy, childbirth, or related medical conditions), gender identity, national origin, ancestry, citizenship, age, physical or mental disability, legally protected medical condition, family care status, military or veteran status, marital status, domestic partner status, sexual orientation, or any other basis protected by local, state, or federal laws. Applicants with questions about access or requiring a reasonable accommodation for any part of the application or hiring process should contact the Talent Network by phone at (408) 503-2194.

Employment at Infineon is contingent upon proof of your legal right to work in the United States under applicable law, verification of satisfactory references and successful completion of a background check and drug test, and signing all your on-boarding documents .

In some instances, if applicable, U.S. export control laws require that Infineon obtain a U.S. government export license prior to releasing technologies to certain persons. This offer is contingent upon Infineon's ability to satisfy these export control laws as related to your employment and anticipated job activities. The decision whether or not to submit and/or pursue an export license to satisfy this contingency, if applicable, shall be at Infineon's sole discretion.

IMPORTANT NOTICE:

Infineon is requiring all new U.S. employees and contractors to be fully vaccinated against COVID-19. Full vaccination is defined as two weeks after both doses of a two-dose vaccine or two weeks since a single-dose vaccine has been administered. Anyone unable to be vaccinated, either because of a sincerely held religious belief or a medical condition or disability that prevents them from being vaccinated, can request a



reasonable accommodation.

Infineon Technologies takes data privacy and identity theft very seriously. As such, we do not request personally-identifiable information (PII) from applicants over the internet or electronically. Please kindly refrain from disclosing your PII electronically during the application process or to unauthorized websites that may purport to be Infineon or any of our affiliates.

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