



Principal Software Engineer

Job description

We are looking for candidates with expertise in embedded system software design and development.

- Embedded system software design.
- Embedded system software development.
- Design and Development of RTOS components, device drivers, power-management, Networking protocols in various RTOS environments
- Design and development of IoT protocols and middleware components that works on top of TCP/IP network stack with various RTOS based environment.
- Design and implement software that helps IoT device to connect to IoT cloud servers.
- Interacting with marketing and cross functional team and identifying requirements and convert them to design.
- Own independent software feature and deliver quality software features.
- Mentor junior engineers and contribute to continuous improvements.
- Demonstration of software design in projects done earlier.
- Demonstration of Embedded Software components and device drivers.
- Demonstration of C programming, software design skills and OS concepts.
- Demonstration of solving critical issues in previous projects.
- Demonstration of knowledge in the area of IoT protocols, TCP/IP network stack, mbed TLS, crypto, etc.

Profile

- Bachelors or Masters in Computer Science / Electronics / Electrical Engineering.
- 13+ years of experience with B.Tech (or) 11+ years of experience with M.Tech.
- 8+ years of experience in embedded system software design and development.
- Experienced 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.
- Experience with RTOS components and device drivers
- Working knowledge of TCP/IP based networking stack and IoT protocols is desired.
- Working experience with mbed TLS, crypto, etc. is desired.

At a glance

Location: **Bangalore (India)**
Job ID: **330486**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Contact

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- 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.

Benefits

- **Bangalore:** Coaching, mentoring & networking possibilities ; Wide range of training offers & planning of career development; Regional and local talent programs; International assignments; Career paths: Management career, Project management career, Technical ladder career, Individual contributor career, Professional career; Flexible work timing, Part time work, Work from home; Home office; Health & wellness reimbursement, Employee motivation forum, Spoorthi – Diversity club, Master health check up, Health promotion campaigns; Crèche facility; Annual success bonus; Mediclaim (dependents & top up), Personal accident, Term life; National Pension Scheme; Health promotion programs; Statutory benefits; Access for wheelchairs; On-site canteen; Paid sick leave, long term illness leave; On site Yoga classes, Sports club

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.

