

## About iTAS Innovations

iTAS Innovations believes in the ideas that enrich the quality of living by adopting minimalistic solutions philosophy, offering technological solutions, relevant to the present and at the same time to be future proof. With ever-increasing demand for “more with less” mantra, with limited natural and man-made resources, paradigm shift to minimalism is the need of the hour. iTAS innovations specializes in the field of embedded product design and services, that is geared-up to offer innovative, cost-effective product solutions and services. With the average industry experience of 25+ years in the field of embedded systems, iTAS Innovations is currently focusing to serve in the areas of Consumer Lifestyle, Networking, Health & Wellbeing and Sustainable living..

## Job description: Sr. Software Engineer –Embedded Systems

We are seeking a highly skilled Firmware Engineer with hands-on experience in C coding, BLE, Wi-Fi, Microcontrollers, Serial Communication - SPI/I2C. The successful candidate will be responsible for designing, developing, and testing firmware. The candidate should have a strong background in developing embedded systems and be able to work collaboratively with cross-functional teams to deliver high-quality firmware solutions.

### Roles and Responsibilities:

- Design, develop, and test BLE-enabled embedded systems.
- Work with other engineers to integrate BLE into existing systems.
- Develop and maintain BLE software and firmware.
- Analyse and troubleshoot BLE problems.
- Work with customers to define and implement BLE requirements.
- Stay up to date on the latest BLE technologies.
- Design, implement, test, and maintain embedded firmware/software for multiple chipset variants/platforms(boards)
- Technical lead develops teams
- Technical interface with Customer/Platform/Validation teams
- Triaging of issues, debug, and fix issues

### Requirements:

- Bluetooth Protocol Knowledge.
- Bluetooth Link controller development, Radio interface resource manager.
- Bluetooth Classic and BLE - Domain Expert.
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- Work with other engineers to integrate BLE into existing systems.
- Develop and maintain BLE software and firmware.
- Analyse and troubleshoot BLE problems.
- Work with customers to define and implement BLE requirements.
- Stay up to date on the latest BLE technologies.



### **Skills and competencies needed.**

- Interfaces/ Communication protocols: BLE, Wi-Fi, SPI, I2C, USB, SDIO, UART, Ethernet
- Processor architecture: ARM, MIPS, intel
- Processors: STM32 series, TI Processors, NXP processors, Qualcomm etc.
- OS: Bare metal, RTOS, Linux.
- Exposure to Threads, Semaphores, Mutexes, Basic networking TCP/UDP socket communication
- Programming languages: C (mandatory)/C++
- Good SW debugging skills
- SW development/ configuration tools: STM32Cube, STM32 IDE, GIT/SVN
- Excellent verbal and written communication skills
- Ability to work independently and as part of a team.
- Attention to detail and ability to meet tight deadlines.

### **Must Have**

- BLE, Microcontrollers, Serial Communication - SPI/I2C protocols, Hands-on C programming experience
- IOT Experience.

### **Education**

- B.E/M Tech (E&C, E&E, Computer Science)

### **Experience**

- 4-8 years