Embedded Software Developer

Insyab Wireless Limited

www.insyab.com

Location : KAUST Research Park, Thuwal – KSA
Start date : July 2018

Insyab is a young company active in the wireless and distributed computing industry. The company is headquartered in Dubai – UAE and has presence in the KAUST Research Park – KSA. Insyab develops robust connectivity solutions empowering teams of drones and robots to effectively collaborate. We are currently seeking an Embedded Software Developer to join our growing team. He/She will be working on a real-time wireless communications system whose core is based on SoC-FPGA. The successful candidate is one who has the ability to develop embedded software modules aimed at offering new functionalities or optimizing existing ones.

The location of this job is at our offices in the KAUST Research Park (innovation.kaust.edu.sa/industry/park/); a "work-live-play" environment featuring a multi-national community with more than 100 nationalities.

Key Responsibilities

1. Build an excellent understanding of the underlying hardware devices and software architectures and interfaces.
2. Development of new functionalities according to technical specifications as provided by the systems design team.
3. Validation, verification, and integration of software modules sourced from 3rd parties.
4. Development of test scripts and execution of regression testing as necessary to ensure seamless operation of the system.
5. Debug of the system using the testing and diagnostic routines on the target hardware platform.
6. Development of documentation for the testing results as well as produced code.

Key Qualifications

1. Bachelor's /Master's degree in engineering, computer science, or any other relevant discipline.
2. Excellent proficiency in C (Python and C++ are also preferable).
3. Experience developing device drivers.
4. Able to comprehend hardware specs and schematics.

5. Familiarity with standard hardware protocols (USB, UART, SPI, I2C, DMA).
6. Familiarity with development in a FreeRTOS, uCLinux, and Linux environments.
7. Good knowledge of Linux kernel structure at an implementation level.
8. Experience in ARM Cortex-Mx and low-power SoC platforms is a plus.
9. Ability to write software specifications and to document developed software.

For potential candidates, please send your CV to info@insyab.com.