JD & Requirements for the Post of Embedded Software Design Engineer

IIITH’s invites applications from embedded software engineers for the first of its kind India-EU collaboration project, Living Lab, funded by MEITY, Government of India. Living Lab is working on several interesting IoT projects in the areas of pollution, energy, water, streetlights and smart classrooms. The candidate will get a wonderful opportunity to work with faculty and research groups engaged.

Essential duties and responsibilities

- Design and implement software for embedded devices and IOT systems
- Analyzing and enhancing efficiency, stability and scalability of system resources
- Work collaboratively and diligently with your fellow team members, product management, hardware and manufacturing teams to produce reliable, standards compliant, world-class products.

Qualifications, skills & experience

Mandatory:

- Bachelor’s degree in Electrical /ECE/CS Engineering from a recognized university.
- Minimum of 1-2 years’ proven ability in hands-on software development and troubleshooting on controller based embedded targets.
- Solid programming experience in C or C++ and Matlab and knowledge in display GUI software is preferable.
- Knowledge of hardware subsystems, interfaces and protocols is beneficial.
- Good expertise in communication interfaces like LAN/RS232/RS485/I2C etc and familiarity with client/server architecture
- Adequate knowledge of reading schematics and data sheets for components
- Strong interpersonal. Communication, documentation and writing skills
- Good team player and Excellent skills in collaborative problem solving,
- Passion to work in new technologies
- Able to support/debug system integration
- Process oriented and a good verbal and written communicator

Highly desirable:

- Knowledge of various kinds of sensors and their interfaces
- Exposure to Big data analytics, Cloud computing, Database and OneM2M/Thingspeak server architecture is a plus point.
- Awareness in the various existing message/packet protocols
- Experience with writing drivers for various wireless communications (LORAWAN, Bluetooth, WiFi etc...)
- Willingness to overcome hardware constraints, and the internal drive to create quality products.