Job Title: Embedded Systems Engineer

Location: Hyderabad

Position Overview:

We are seeking a talented and dedicated Embedded Systems Engineer to join our team. The ideal candidate will be responsible for developing embedded software solutions utilizing STM32 and Arduino microcontrollers, proficient in embedded C coding, Cube IDE, Keil IDE, and possessing a strong understanding of Real-Time Operating Systems (RTOS). Additional experience with C and Python coding is preferable.

Responsibilities:

- Design, develop, and test embedded software solutions for STM32 and Arduino microcontrollers.
- Utilize Cube IDE and Keil IDE for firmware development and debugging.
- Implement and optimize code for real-time performance and resource-constrained environments.
- Collaborate with cross-functional teams to define system requirements and specifications.
- Integrate and troubleshoot hardware and software components.
- Develop and maintain RTOS-based applications for efficient task scheduling and management.
- Perform unit testing, integration testing, and system validation.
- Stay updated with the latest technologies and best practices in embedded systems development.

- Document software designs, specifications, and test plans thoroughly.

Requirements:

- Bachelor's/Master's degree in Electrical Engineering, Computer Engineering, or related field.
- Proven experience (1 to 2 years) in embedded systems development.
- Proficiency in embedded C coding for microcontroller-based applications.
- Strong understanding of STM32 and Arduino microcontrollers and their peripherals.
- Experience with Cube IDE, Keil IDE, and familiarity with RTOS concepts.
- Additional experience in C and Python programming is a plus.
- Knowledge of communication protocols (SPI, I2C, UART) and peripheral interfaces.
- Solid problem-solving skills and attention to detail.
- Ability to work independently and as part of a team.
- Excellent communication skills to collaborate effectively with colleagues and stakeholders.

Preferred Qualifications:

- Familiarity with hardware design and schematic capture tools.
- Experience in low-level driver development and hardware abstraction layers.
- Knowledge of version control systems (Git, SVN) and issue tracking tools.
- Understanding of software development lifecycle and agile methodologies.

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Benefits:

- Competitive salary package.
- Opportunities for professional development and growth.
- Collaborative and supportive work environment fostering innovation and creativity.

How to Apply:

Please email your resume to hrm@kalki-tech.com