Job Description for Embedded Systems Engineer/ Embedded Software Engineer

About the job

We are looking for a skilled Embedded Systems Engineer/ Embedded Software Engineer with hands-on experience in Raspberry Pi, Linux systems, GUI development, and microcontroller interfacing. The ideal candidate will work on designing, developing, and integrating embedded solutions for innovative products.

Note: Only candidates based in Surat or willing to relocate to Surat should apply.

Responsibilities

- Develop and maintain embedded systems applications on Raspberry Pi (using languages such as Python, C, and C++).
- Design and implement Linux-based solutions, including configuration and setup of operating systems (Raspberry Pi OS, Ubuntu, etc.).
- Design and create graphical user interfaces (GUIs) for applications running on the Raspberry Pi using GUI tools and other appropriate frameworks.
- Write efficient, maintainable code for the Raspberry Pi, including code for display screens (LCD, OLED, etc.), touch interfaces, or external peripherals.
- Interface Raspberry Pi with microcontrollers like STM32 for embedded control applications.
- Work with various microcontroller platforms to create embedded systems that communicate with Raspberry Pi via protocols like I2C, SPI, and UART.

Qualifications

- B.E./B.Tech in Electronics and Communication Engineering or a related field.
- Strong foundation in embedded systems, electronics, and microcontroller-based development.
- Hands-on experience with Raspberry Pi, Linux OS, and microcontroller interfacing (STM32, Arduino, etc.).
- Proficiency in programming languages such as Python, C, or C++.
- Familiarity with communication protocols like I2C, SPI, and UART.
- Good understanding of both hardware and software integration in embedded systems.
- Candidates based in Surat or willing to relocate to Surat are preferred.