

Sr. Firmware Engineer

JOB DESCRIPTION

Essential Functions

- Programming RTOS embedded systems using C/C++/Assembly
- Programming Windows GUI using Microsoft Visual Studio.
- Develop device drivers and interfaces.
- Develop product specifications, design software/firmware specification, and support of whole products lifecycle from concept through manufacturing and deployment.

The applicant **MUST** have the following qualifications:

- 7 or more years of experience in developing firmware for embedded systems using C/C++/Assembly.
- 4 or more years of working experience in embedded multitasking RTOS such as VxWorks, QNX, MQX or equivalent.
- 4 or more years of working experience in device driver development: SPI, I2C, CAN, RS232.
- 3 or more years of working experience in networking protocols: TCP/IPv4/IPv6, SNMP, NTP.
- Working knowledge of BSP bring-up: BOOTP, TFTP, FTP, flash memory configuration.
- Good knowledge of structured software development environments, coding standards, source code control, bug tracking- Process oriented.
- Know how to use/setup/configure common Electronic Test Equipment.
- Excellent troubleshooting skills.
- Excellent written and verbal communication skills.
- BSCE/BSEE required, MSCE/MSEE or higher preferred.
- U.S. Citizenship required.

Preferences

- Experience in developing firmware for embedded systems using C/C++/Assembly.
- Experience in embedded multitasking RTOS such as VxWorks, QNX, MQX or equivalent.
- Experience in device driver and interface development: SPI, I2C, CAN, RS232, and Ethernet PHY.
- Knowledge in networking protocols: TCP/IP, SNMP, NTP, Telnet, SSH.
- BSP bring up: BOOTP, TFTP, FTP, flash memory configuration.
- Know how to use/setup/configure common Electronic Test Equipment: Oscilloscope, Protocol Analyzer, EEPROM programmer, etc.

Work Environment

This job operates in a professional office environment, but in a manufacturing company. This role uses standard office equipment such as computers, phones, photocopiers, scanners, filing cabinets and fax machines.

Position Type/Expected Hours of Work

This is a full-time position with a minimum of 40 hours per week.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of all activities, duties, or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.