

Full-Time Exempt Position
U.S. Citizenship Required for this Position
Req # 188

Senior Firmware Engineer

BRIEF DESCRIPTION OF JOB DUTIES:

- Programming RTOS embedded systems and GUI using C/C++
- Develop device drivers: RS232, SPI, I2C, Ethernet PHY, flash memory
- Develop and enhance networking protocol stacks: TCP/IP, SNMP, NTP, SSH
- Programming control and maintenance applications using C/C++
- Maintain and enhance time and frequency product family
- Involving in system firmware quality verification
- Involving in product specifications, design software specification, and support of whole products' lifecycle from concept through manufacturing and deployment

JOB REQUIREMENTS

The applicant MUST have the following qualifications:

- BSCE/BSEE or higher required
- U.S. Citizenship required
- Minimum of 7 years in developing firmware for embedded systems using C and C++
- 5 or more years working on Linux or embedded Linux U-boot and kernel; Yocto project development and custom build tree
- Strong knowledge of Linux scripting languages
- Knowledge of 64/32/16 bits CPU or microcontrollers hardware architecture.
- 10 or more years' experience in embedded multitasking RTOS such as VxWorks, MQX or equivalent
- 5 or more years' experience in device driver development: SPI, I2C, RS232, EEROM
- Good knowledge of SW system architecture, structured software development environments
- Know how to use/setup/configure common Electronic Test Equipment: Oscilloscope, EEPROM programmer, etc.
- Excellent troubleshooting skills
- Excellent written and verbal communication skills
- Self-motivated
- Attention to Detail
- Effectively manage time and tasks
- Ability to work on projects alone or as part of a team

Additional Desirable Experience:

- Knowledge of Visual Studio C++/C#
- Linux operating systems
- Knowledge of Scripting Languages: Python, Perl, etc.
- 1553 protocol
- Knowledge of GPS receivers

Salary range: \$140,000/yr - \$170,000/yr – DOE

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