

## **Sr. Embedded Software Engineer**

### ***A Brief Description of Job Duties:***

The Senior Embedded Software Engineer duties are to analyze, design, develop, integrate and to test Time and Frequency Reference product family in an embedded Real Time Operating System (RTOS) environment. Assignments are often self-initiated and the candidate determines and pursues course of action necessary to obtain desired results with minimum supervision. Develops advanced technological ideas and guides the development into final products. Take the ownership on multiple-resource projects. Team player with demonstrated commitment.

Job responsibilities include, but are not limited to:

- Programming RTOS embedded systems using C/C++/Assembly
- Develop device drivers: RS232, SPI, I2C, Ethernet PHY
- 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

### ***Applicant MUST have the following qualifications:***

- BSCE/BSEE or higher required
- 4 or more years of experience in developing firmware for embedded systems using C/C++/Assembly
- 2 or more years of working experience in embedded multitasking RTOS such as VxWorks, QNX, MQX or equivalent
- 2 or more years of working experience in device driver development: SPI, I2C, CAN, RS232
- 2 or more years of working experience in networking protocols: TCP/IPv4/IPv6, SNMP, NTP
- Working knowledge of BSP bring-up
- Good knowledge of SW system architecture, structured software development environments, coding standard, source code control, bug tracking
- Know how to use/setup/configure common Electronic Test Equipment: Oscilloscope, Protocol Analyzer, EEPROM programmer, etc.
- Excellent troubleshooting skills
- Excellent written and verbal communication skills
- U.S. Citizenship is required

### ***Additional desirable experience:***

- Knowledge of Visual Studio C++
- Familiarity with Linux operating systems
- Knowledge of Scripting Languages: Python, Perl, etc.