

Embedded Software Engineer

Responsible for developing optimized software to support the prototypes of integrated x-ray sources and high voltage generators.

Job Description

- Design and create requirement specifications for the Microcontrollers to be used in the High Voltage power supply design
- Test unit and integration of firmware and GUI changes
- Maintain Software Version Control (SVN) and release management systems
- Provide documentation for third party integration into the firmware and customer support to debug software issues
- Program Data Acquisition based GUI's using serial communication (RS232) and Ethernet Communication (TCP/IP) protocols

Essential Skills

- Bachelor's Degree in Electrical and/or Computer Engineering
- 3 years of experience with NI, Labview, Microsoft Visual Studio C++/VB/C#, Embedded C and RTOS
- 2-3 years of experience with Freescale products (MC56F8037 7 ARM) microcontrollers
- Ability to work with Analog and Digital Circuits based PCB designs like Op Amps, ADC, DAC & multi-functional IC's
- Working knowledge of Microsoft Word, Project, Excel & PowerPoint
- Perform software development and version control adhering to SCRUM standard
- Proficiency in the English language with established written and verbal communication skills
- Excellent interpersonal, multi-tasking and organizational skills
- Knowledge of RS-232 and TCP/IP communication standards
- Demonstrated ability to write firmware for Industrial control equipment
- Collaboration and creative thinking skills

Non-Essential Skills

- Thorough knowledge of radiographic Imaging systems for Industrial and Medical inspection
- Strong background in understanding X-ray Tube design of high voltage generators to power up X-ray sources
- Prior experience developing wireless security protocols



Physical Demands

- Occasionally required to sit; climb or balance; and stoop, kneel, crouch or crawl.
- Frequently lift and/or move up to 40 pounds.
- Vision abilities required for this position include close vision, distance vision, color vision, peripheral vision, depth perception and ability to adjust focus.
- Ability to fulfill essential job function in a consistent state of alertness and safe manner.
- Sitting 70%, Standing 25%, Bending 15%
- Able and willing to travel

This job description is not designed to cover or contain a comprehensive listing of 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.