



KLEIN MARINE SYSTEMS, INC.

JOB DESCRIPTION

Senior Software Engineer

About the Company:

Founded in 1968, Klein Marine Systems, a wholly owned subsidiary of Mitcham Industries, Inc., is the world's leading supplier of side scan sonar equipment, waterside security and surveillance systems. Klein Marine Systems enjoys a worldwide reputation of excellence founded on high-quality products and customer service. Klein side scan sonar systems are respected as the standard of excellence in the industry and are deployed by governments, navies, port authorities, surveyors, oil companies and universities worldwide.

Position: Senior Software Engineer

Reports to: Director of Engineering

Job Description:

Combine the knowledge of software, general engineering principles and creativity to assist in the design of subsea sonar imaging products. Work with a cross-functional team of engineers to convert leading edge ideas into demonstrable prototypes. Support equipment testing and demonstrations at sea. Transition concepts into products by way of engineering analysis, design, and collaborative integration and test.

- Write software to accomplish stated specifications and program objectives.
- Create and execute unit tests as part of software verification efforts
- Coordinate and collaborate with the software development team, and other disciplines as appropriate, to identify and implement improvements in the product set to increase modularity and reduce testing and maintenance.
- Perform sustaining software engineering tasking for established code base

This job involves the development and support of embedded software running on a Linux platform to control undersea and surface hardware. The Linux applications communicate over networking and interface to standard and custom hardware to perform their tasks. Higher level data management and UI functions are implemented on a Windows platform. Linux development is based on GNU/Eclipse and Windows development uses Visual Studio/TFS. Most code is in C++ on both platforms with some selected Windows components implemented in C#.

The Embedded development is near real time in nature and will involve working on a cross-functional team to integrate initial software and to diagnose and develop strategies for dealing with issues recognized during integrated test or in the field. Although this is a development position, there will be support needed to sustain existing products in the factory and field as well.

JOB DESCRIPTION

Senior Software Engineer

The Klein Marine Systems name is associated throughout the world with products, used across a broad array of applications, that provide superior imaging and high quality. You will have the opportunity to contribute not only to the evolution of the products, but to the company and its culture.

Qualifications:

- Bachelor's Degree in Computer Science or Electrical Engineering
- A minimum of 5 years of experience in software design and test
- Experience with near-real time control and data acquisition software
- Experience working on Multidisciplinary teams (Electrical, Mechanical, Software, Systems)
- Experience with C++

Pluses:

- Working knowledge of Linux OS and drivers
- Experience with Linux-based embedded systems
- Experience in MATLAB
- Windows Application/GUI development (Visual Studio/TFS/MFC)
- Some exposure to C# with WinForms or WPF an additional plus
- Experience providing second level support for the field

Requirements:

- Experience with real-time embedded software development in conjunction with hardware product development. This includes the ability to develop and execute debugging strategies for embedded software.
- Demonstrated troubleshooting skills.
- Solid experience in designing, developing, debugging, testing and supporting API/application software in a Windows/GUI environment.
- Proficiency in MFC, C++, Win32 SDK and Visual Studio is required.
- Must be able to analyze software development requirements to determine feasibility of design within time and cost constraints, including scheduling, implementation and initial testing.

Please send cover letter and resume to Employment@KleinMarineSystems.com