Vector Controls Inc. – Embedded Software Developer

Vector Controls Inc. (www.vcinc.com), located in Newton, Massachusetts, is engaged in the design and manufacture of electronic control systems for marine propulsion applications. We are seeking an Embedded Software Developer interested in contributing to company growth in a dynamic environment.

The qualified engineer will apply embedded software development skills to the entire product development lifecycle. The primary role will be to specify, design, develop and test embedded software for complex maritime craft control systems.

Responsibilities include:
• Performing advanced systems engineering functions independently
• Preparation of engineering documentation, including specifications, detailed design memoranda, test protocols, test reports, and technical procedures
• Technical consultation in relation to existing products and ongoing product improvement.
• Develop JAVA/C++ interfaces to test new and legacy systems
• Develop/write new tools to assist field work teams (ie. CAN, RS232 data collection)
• Support field operations by tracking down possible software issue reported by others.

Requirements
MS in Computer Engineering, Electrical Engineering plus relevant industrial experience in Embedded systems, Digital Design, Electronics and Software engineering. 3+ years’ experience preferred. A qualifying candidate must be well versed in C/C++ and able to understand circuit-level schematics.

Experience with any combination of the following is desired:
• Embedded operating systems
• Control systems (e.g. PID)
• Industry communication protocols (e.g. J1939, RS232, NMEA 2000)
• Software analysis of algorithms
• Test equipment (e.g. DMMs, oscilloscopes, logic analyzers)
• Popular embedded microcontrollers families such as the TI TMS320F, SAM4E and ATMega48
• Common embedded busses (e.g. SPI, I2C, 1-Wire) and microcontrollers peripherals (e.g. timers, PWM, A/D converters)
• Debugging with JTAG devices

• Low-level device driver development

• Experience developing interfaces for internal test (Java) or end-user graphical interfaces.

• Standard software collaboration tools (e.g. SVN, Wiki)

Interested candidates please submit resume to: jobs@vcinc.com