



Date: August 20, 2010
Job Title: Embedded Linux C/C++ Application Developer
Reports to: CTO
Pay Rate: Salary + Bonus
Pay Range: DOE

Embedded Linux Application Developer

Obvius is a rapidly growing technology based company focused on the development of innovative products for gathering web-based energy information in commercial, industrial, and government facilities. As the demand and reach for our products increase, we are continuously seeking hard working and dedicated industry leading professionals. Obvius has a full time position opening for a Embedded Linux Application Developer

The Embedded Linux Application Developer is responsible for developing applications and device drivers for an Linux/Arm9 based system. The user interface, networking, and hardware device access applications are typically written in C/C++ and provide data logging and communications functionality with external devices. The Embedded Linux Application Developer may also provide advanced hardware technical support to external customers when required.

The Embedded Linux Application Developer is expected to:

- Develop software applications and drivers in C/C++ for the Linux/Arm9 based AcquiSuite product line.
- Communicate with manufacturers of third party Modbus devices to provide feedback about programming interfaces, as well as write embedded software applications to read data from them.
- Research and develop strategies for interfacing with third party devices with proprietary communications interfaces.
- Work with the hardware design team to develop hardware/software interfaces to be used in product designs.
- Create or modify Linux kernel device drivers to support features in the the Arm9 hardware platform.
- Provide assistance developing and maintaining website/database tools for customer and technical support applications.

Required experience & knowledge:

- Experience developing C/C++ applications for embedded Linux platforms
- Experience with embedded Linux, uCLibc, and Busybox running on an Arm9 platform..
- Solid understanding of Linux Inter-process Communication (IPC), Linux signals, shared memory, race conditions and deadlock avoidance.
- Experience developing multithreaded apps and multithreaded server processes.
- Understanding of IP network concepts: TCP's "sliding windows", DNS, DHCP, HTTP proxies, NAT, BSD sockets.
- Experience implementing/debugging network, serial and wireless protocols. Comfortable with Wireshark or tcpdump.
- Experience with the Modbus protocol.
- Experience developing PHP based web applications running on Linux/Apache/MySQL server.
- Bachelor's degree in electrical engineering or computer software.
- Excellent written & verbal communication skills.
- Excellent teamwork skills.

Please submit your resume to: careers@obvius.com