Electrical/Embedded Systems Engineer (SLO)

Arroyo Instruments, a San Luis Obispo-based manufacturer of precision electronic instruments, is looking for an entrepreneurial, experienced **electrical/embedded systems engineer** to join the Arroyo Instruments team.

As part of a small, customer-oriented engineering team, you will participate in a wide range of activities including product development and customer support. We are developing high-precision test instrumentation for the laser and LED industry using a range of digital and analog technologies.

Product development is focused on smart power supplies, temperature controllers, and related instrumentation. Primary development is in C++ on an in-house developed operating system running on ARM7 microprocessors. Code makes extensive use of object-oriented design, so experience in OOP is a must. Designs include significant work at the lowest levels of hardware control (SPI, digital I/O, chip-to-chip communications).

This is a position for someone who enjoys working at the microprocessor level, handling the intricacies of chip-to-chip communications, managing limited hardware resources, and the satisfaction of perfecting a finely-tuned digital machine. If you are looking for user-interface, GUI-driven development in large footprint embedded system, this is likely not the position for you.

While not required, analog design experience would be a plus. Most designs include a significant amount of analog circuitry, and understanding that circuitry to evaluate performance, diagnose issues, and even design new hardware would broaden the scope of the position.

Principle responsibilities include, but are not limited to:

- Design and implement new software and hardware for embedded devices and systems from requirements to production and commercial deployment
- Researching and recommending new design technologies
- Architecting new product designs, including multi-channel, multi-processor instruments
- Post-production product and customer support

Minimum requirements:

- Bachelor's degree in computer engineering or electrical engineering, or equivalent work experience
- Proficiency in reading schematics and understanding digital circuitry.
- C++ programming experience in an embedded system environment
- 5+ years job experience in an embedded systems engineering position or electrical engineer position with emphasis on embedded programming
- Strong verbal and written skills

Experience developing products for test and measurement applications a major plus (i.e., control and measurement instruments such as DMMs, power supplies, and other digitally controlled analog-type instrumentation)

Analog skills also valuable, but not required:

- Able to read and understand analog circuits and be able to diagnose basic analog problems
- Basic proficiency in analog design required, advanced analog design experience highly desirable
- Schematic capture

This position will work alongside an existing senior embedded systems engineer and analog design engineer. As all Arroyo products include both digital and analog design elements, strong preference will be given to applications with both digital and analog design experience. This position is expected to take a technical leadership of the embedded systems activities within Arroyo Instruments.

This is a full-time, exempt position. Compensation is dependent on experience.

Please do not apply for this position if you do not have the minimum required experience and abilities.

For more information about the company, please visit our web site at http://www.arroyoinstruments.com.

You may submit a resume via email at hr@arroyoinstruments.com, fax your resume to (805) 543-1303, or drop off your resume in person.

Arroyo Instruments is near the airport in a new facility located at 1201 Prospect Street in SLO, off Broad Street.

PLEASE DO NOT CALL! You must submit an application/resume to be considered for the position. You will be contacted only if you have been selected to interview for this position. Only applications or resumes for this position will be considered.