

Continental Electronics

SOFTWARE ENGINEER

The Software Engineer, working with software and hardware teams, creates code and documentation to support system control and monitoring of CEC products and systems. Experience with radio or TV transmitter equipment and / or control systems is *highly desirable*.

RESPONSIBILITIES

- Develops software solutions by conferring with users, studying systems flow, data usage, and work processes. Anticipates problem areas by utilizing the software development life cycle
- Determines operational feasibility by evaluating the problem definition, requirements, and proposed solutions
- Documents and demonstrates solutions by developing flowcharts, layouts, diagrams, charts, code comments and clear code
- Updates job knowledge by staying familiar with state-of-the-art development tools, programming techniques, and computing equipment; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations
- Supports the organization by providing advice, coaching and participating in product/system design reviews

REQUIREMENTS

- 5+ years of experience as a software engineer; demonstrated success developing a variety of software systems
- 5+ years of experience developing control and monitoring applications utilizing custom register interfaces and TCP protocols as part of the overall application architecture
- Proficiency developing and troubleshooting complex software systems that run in mixed environments including Linux, Unix and/or Windows on desktop, server, tablet, and mobile systems
- TCP/IP debugging w/ ICDs
- Previous experience configuring and using any or all of the following: Linux, C/C++, TCP/IP networking, and web development HTML[5], PHP, and GTK+3.x or similar GUI development
- Hands-on work with lower-level communication protocols, RF experience, lab/test equipment, schematics & board-level parts
- Ability to obtain a secret **security clearance** through the company or already have a clearance
- US Citizenship, per customer requirements
- Able to travel at least 5% of time

ADDITIONAL DESIRED CAPABILITIES

- VMWare/VirtualBox
- Highly desirable: DSP, AJAX, SOAP, Ant, Servo motor tuning, PLC Ladder Diagrams, NTP, Subversion, Git
- Writing embedded / Industrial Internet of Things (IIOT) globally distributed applications
- UI and human-computer interaction design
- Modify, design, develop and debug device drivers for I2C, SPI, UART, USB, PCIe, GPIO

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- Script Tools: Python, BASH, Lua, CSH, Perl, TCL/TK
- Issue tracking, embedded Linux: Jira, Buildroot, OpenEmbedded
- Automated tests and optimizing builds would be nice-to-h

EDUCATION

Bachelor's degree in Computer Science, Electrical Engineering, Computer Engineering or similar technical discipline, with five (5) years of related experience. Otherwise, an equivalent combination of relevant technical education and experience

PHYSICAL DEMANDS

While performing the duties of this job, the employee is regularly required to sit. The employee frequently is required to walk; use hands to finger, handle or feel; reach with hands and arms; and talk or hear. The employee is occasionally required to stand. The employee must frequently lift or move objects up to 10 pounds and occasionally lift or move objects up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision and ability to adjust focus.

BENEFITS

CEC provides opportunities for educational reimbursement, employee assistance program, company lunches, 3 weeks of vacation & sick time, family medical / dental / vision benefits, matching 401k, free life & disability insurance, service awards, and employee social events.

Equal Opportunity Employer: minority / female / disability / veteran