

Software/Firmware Design Engineer

SUMMARY

Located in Hayward CA, Wohler Technologies, Inc. is a leading provider of audio and video monitoring equipment to the broadcast industry. The Software/Firmware Design Engineer will be responsible for designs, with particular emphasis on digital audio and video products, involving software and firmware for embedded microcontrollers, DSPs and FPGAs.

Significant Responsibilities:

1. New Product Development and Product Improvement including design, integration, testing, and transition into production.
2. Specification and design of data structures, protocols, and interfaces.
3. Interfacing LCDs and OLEDs with video and graphics.
4. Embedded systems development, FPGA development; software interfaces.
5. Collaboration with the other members of the Engineering team to execute successful New Product Development.

Qualifications (Including education, if applicable):

1. Self-starting, creative individual who works well in a team environment.
2. Sound knowledge of FPGA design, embedded design, and hardware functionality.
3. Proven experience in VHDL or Verilog for FPGA design, implementation and verification as well as sound knowledge of FPGA development environments and tools.
4. Knowledge of serial and Ethernet interface protocols and functions.
5. Knowledge of SD/HD/3G SDI digital video and audio circuit theory and design.
6. Proven experience in circuit fault finding and analysis techniques.
7. Expertise in C/C++ coding and Networking protocols.
8. Knowledge of real-time programming concepts and debugging techniques.
9. Excellent interpersonal skills and communication skills, both written and verbal.
10. Excellent organizational and documentation skills.
11. Proficiency with Microsoft Office applications, software/firmware development tools, digital oscilloscopes, and other development/debugging tools.
12. BSCE, BSCS, or equivalent experience.
13. A minimum of 4 years relevant experience developing products in a small, dedicated, multifunctional project team.

Desirable Qualities:

1. Experience in systems design and implementation within a television broadcast facility.
2. Experience in software user interface (UI) design.
3. Digital Signal Processing (DSP) experience.

Personal Attributes:

1. Uses creative, conceptual or inductive reasoning to develop novel concepts.
2. Breaks complex problems, processes or projects into their component parts and organizes the parts in a systematic way.

3. Acts to minimize errors and maintain high standards of quality by checking or monitoring data and work, and by developing and maintaining systems for organizing work and information.
4. Acts to improve performance by committing oneself to accomplishing challenging objectives or competing against a self-defined standard of excellence.
5. Takes self-directed or self-motivated action to exceed expectations.
6. Possesses the genuine intention and ability to work cooperatively with others, as a team, to complete innovative and successful product designs.
7. Acquires, expands and uses technical knowledge, and disseminates this knowledge to others.
8. Aligns behavior with the needs, priorities and goals of the development team and the company.

**Please feel free to visit our website at www.wohler.com.
We look forward to hearing from you!**

Wohler Technologies Inc. is an equal opportunities employer.