



316 W. FLORENCE AVENUE, INGLEWOOD, CALIFORNIA 90301
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JOB OPENING

Job Title: FPGA Developer / Firmware Engineer

Overview:

Empower RF Systems, Inc. is a leading provider of high-power ultra-broadband radio frequency (RF) amplifier solutions. Headquartered in Inglewood, California and founded in 1999, the company and designs and manufactures solid state RF amplifier systems/modules for commercial and military customers worldwide.

Position Summary:

This is a technical position reporting to the CTO with a supporting role within the Engineering Department. Primary focus is on the amplifier's digital control board based on Xilinx ZYNQ architecture. The position requires hands-on bench testing and debugging of digital hardware, interfacing with customers during design reviews and system tests and working with vendors to explain special requirements and to troubleshoot and resolve technical issues related to vendor-supplied material.

Primary Duties:

- Actively participate in HW/FW and software requirements documentation and ICD.
- Design high speed LVDS bus.
- Design and implement firmware components to meet design requirements.
- Create basic firmware architecture and write code for individual components using commonly used embedded system design languages Verilog or VHDL, as well as tools such as Vivado and ISE.
- Capacity to design and implement multilane distributed architecture

Key Qualifications and Experience:

- Associate or Bachelor's degree in Computer Science or Electrical Engineering with 4+ years of experience of FPGA design and applications
- Knowledge of embedded systems design, embedded processing and processor interfaces
- Familiarity with MicroBlaze and PicoBlaze softcore processors, as well as ARM architecture
- Experience with DSP algorithm design and implementation. Adaptive filtering and application.
- Experience with Control Theory design and implementation (such as PID loops)
- Experience with high-speed AD/DA conversion design and implementation of LVDS interface at HW/FW level
- Experience with system integration of high speed FPGA design with supervisory CPU and other devices
- FPGA integration, verification, debugging and validation
- Experience interfacing with common hardware devices such as ADC, DAC, EEPROM, Boot Flash, etc.
- Proficient in using various electronic test / measuring equipment including: Digital Multi-meter, Oscilloscope and Logic Analyzer.
- Familiarity with some of the following bus systems and related protocols is preferred: serial (RS485/422/232), LVDS, SPI, I2C
- Analog and digital electronics circuit knowledge required and hardware design experience.
- Multilane/Pipelined distributed architecture to process high speed data acquisition

Summary:

If you like what you see and have the above qualifications, Empower RF Systems is the company that will further your experience and career growth. We offer a competitive salary, comprehensive benefits including medical and dental insurance, 401k Plan with matching contributions, etc. Join our team of innovative professionals!

To learn more about Empower RF Systems, please visit our website at www.empowerrf.com.

To apply, go to:

https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=cea401c3-74d3-47aa-af70-642af9d7bd27&jobId=135007&lang=en_US&source=CC3&cclid=19000101_000001

OR, go to company website, click on **Job Opportunities** on left menu, and follow instructions to apply.

Equal Opportunity Employer of females, minorities, individuals with disabilities and protected veterans.