

Troll Systems Corporation is searching for a **EMBEDDED SOFTWARE/FPGA ENGINEER** who is ready to advance his/her career. At Troll Systems you will be developing cutting edge SDR, and related communications software for advanced police and military communication systems. A strong knowledge of Linux as well as a FPGA development using Vivado is a must. In addition, you will have experience with digital video over IP networks, video encoding, decoding and distribution.

This position reports directly to the Engineering Manager to ensure that product specifications are well defined and met. You will participate in developing detailed specifications, work with vendors to understand control of third-party devices, code, debug and deploy products. Applicants will be comfortable with hardware and able to use basic test equipment such as oscilloscopes and logic analyzers.

Troll Systems is a worldwide leader in the development high-speed air-to-ground data links, tracking antennas and control systems, designed to deliver image intelligence, surveillance and reconnaissance, from manned and unmanned aircraft, land and marine vehicles. Troll employees work in a truly exciting industry, with enormous growth potential. Troll products are used by domestic and foreign militaries, commercial broadcasters, police, fire, and search and rescue organizations all over the world.

RESPONSIBILITIES and EXPECTATIONS

In the first three months, a successful candidate will have:

- Demonstrate your ability to code and debug on our embedded Linux platform
- Demonstrate your ability to develop Xilinx FPGA using Vivado (SDR related).
- Demonstrate your ability to read schematics and basic understanding of circuits and systems design.
- Demonstrated understanding of Troll's documentation and revision system.
- Developed a working knowledge of our software architecture.
- Demonstrated above average abilities as a self-starter and a high degree of self-motivation

In the first six months, a successful candidate will have:

- Demonstrated ability to successfully design software modules for new systems including Linux drivers and FPGA modules using Vivado.
- Demonstrated ability to successfully troubleshoot and resolve problems found in existing software modules.
- Participate in the improvement of documenting software design.

In the first twelve months, a successful candidate will have:

- Demonstrated ability to lead new product developments
- Reduce backlog by better estimates and less re-work
- Train others in the skills above.

REQUIREMENTS

Education and Experience

Minimum BS Engineering with five + years' experience or combination of experience in:

- Operating systems including:
Windows and Linux
- Embedded Software/Systems and FPGA languages including:
C/C++ XHDL Java
- Micro-controllers including:
X86 ARM 8051

- Applications development including:
 - SDR (including waveform development)
 - Command, Control, Process automation
 - Video/Audio network streaming
 - DVR and other digital video/audio/data management/archiving
 - Meta Data processing
 - Video encoding/decoding in software
- Drivers including:
 - SDR control
 - Streaming Video
 - Windows device drivers
 - Linux device drivers
 - Audio/Video device drivers

Preferred background in:

- Control systems
- Digital video system
- Analog and/or digital communications
- Satellite communications systems
- RF systems

Must be a U.S. citizen or Green Card holder for authorized access to controlled technology/data as subject to ITAR as well as possess both a valid driver's license and passport.

Compensation is commensurate with experience and education. Position location is in Valencia, CA. full-time, on-site, 9/80 work schedule. Must be a U.S. citizen or Green Card holder for authorized access to controlled technology/data as subject to ITAR as well as possess both a valid driver's license and passport. This position reports to the VP of Operations and requires the utmost in loyalty and integrity with strategy for managing key customer accounts and relationships. Compensation is commensurate with experience.

Relocation is not available for this position.