

Embedded Firmware Engineer

We are looking for an experienced Embedded Firmware Engineer who will become a key contributor to our HDTV video surveillance applications and systems. The ideal candidate is a person with hands-on application development experience on embedded platform with a real-time operating system. This individual will be working in an extremely aggressive engineering team and develop firmware solutions for next generation megapixel IP cameras. Depending on the individual this position may also include some management responsibilities and evolve into the software / firmware development manager position.

Arecont Vision is a fast growing 6-year-old company where key contributors are valued highly. In order to maintain our leading position in the marketplace and stay on the cutting edge of technology, the R&D results are quickly propagated into products, and individual contributions are not lost in the sea of peripheral activities. We pay very competitive salaries and revenue-sharing bonuses to allow every key employee to fully share in our success.

Key words: RTOS, embedded Linux, Linux driver, GNU tool chain, C/C++, network protocols, HTTP, HTTPS, RTSP, JPEG, MPEG, H.264, megapixel IP camera.

Job summary:

- design and develop firmware solutions for next general megapixel IP cameras using C/C++ and assembly.
- develop RTOS drivers for microprocessor peripherals; optimize Linux and/or RTOS kernel to meet performance requirements on network throughput, interrupt response time, etc.
- provide technical assistance to Arecont's integration partners and customers worldwide in developing applications involving Arecont's megapixel IP cameras
- prepare technical documentation related to firmware development

Requirements:

MS in CS/EE or similar; 5+ years of experience in the related field.

Required skills:

- multi-threaded C++ application development using open source tool chain
- socket and lower level network programming and troubleshooting
- embedded RTOS driver design and kernel optimization
- familiarity with microprocessor architecture, especially ARM, Microblaze, and 8051
- good communication skills and strong problem solving abilities

Nice-to-have skills:

- familiarity with image compression standards JPEG and H.264
- familiarity with XML and javascript
- familiarity with Microsoft Visual Studio
- familiarity with security and surveillance applications



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Arecont Vision is the leading manufacturer of world's fastest multi-megapixel IP cameras and digital video surveillance systems. Leveraging its proprietary massively-parallel image processing technology, MegaVideo(R), Arecont Vision brings to the market a line of unique video systems that deliver full-motion HDTV resolution video at NTSC price levels.