

# PHARAD

Wireless Sensors, Communications, Antennas

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## POSITION DESCRIPTION

### Embedded Software/Firmware Engineer

Pharad, LLC develops state-of-the-art wireless sensors, communications, and antenna products. We are seeking an experienced Embedded Software/Firmware Engineer to join our development team of highly skilled engineers.

#### Responsibilities:

- Participate as a member of the engineering team that designs and develops our advanced wireless sensors and communications products.
- Document designs through a standard development process.
- Capture embedded software/firmware requirements for wireless sensors and communications products in requirements documents.
- Understand the product performance tradeoffs including speed, memory, development cost, and recurring product cost.
- Contribute to the target hardware selection process.
- Select an OS or RTOS for target hardware.
- Design, develop, code, and support software and firmware for embedded applications executing on microcontrollers and development boards.
- Develop embedded software/firmware at a peripheral/device driver level.
- Lead design reviews.
- Develop test plans to verify designs.
- Verify designs through the use of simulators, emulators and electronic test equipment.
- Test prototype target hardware.
- Support interactions with customers.
- Project manage embedded software design and development activities including: organizing software development work, performing risk identification and mitigation analyses, and coordinating with other engineering disciplines to create cohesive and robust designs.

#### Position Requirements:

- BS in Electrical Engineering, Software Engineering or related field
- 5+ years experience in real-time embedded software development
- Experience developing drivers and embedded software for communication peripherals, Analog to Digital Converters, mixed signal interfaces
- Experience in C, C++, assembly
- Experience with multiple OS's and RTOS's
- Experience with Analog Devices' Blackfin Processor a plus.
- Experience with development tools such as compilers, assemblers, simulators and emulators
- Demonstrated discipline in developing and documenting modular and portable software
- Experience in testing and verifying embedded software on target hardware
- Must be a self-starter and able to work with minimum supervision
- Goal oriented, and a team player with good interpersonal skills
- Possess a strong work ethic
- Signal processing experience an advantage
- User interface development experience desired
- Analog and digital circuit design experience and ability to read schematics a plus
- Experience with oscilloscopes, logic analyzers, other electronic test equipment desired