

**PRECO Electronics  
Firmware Engineer  
Boise, ID**

**Overview:**

This engineering position will provide technical expertise in the design and development of radar-based sensor systems focused on overall system development. The individual will be part of a small engineering team that designs and implements software for microcontrollers and DSPs to complement the hardware for cost conscious solutions in vehicle safety systems.

**Primary Responsibility:**

- Works closely with the production and engineering team and will be involved in all aspects of the product design life cycle - including system architecture, circuit design, algorithm development and, system validation

**Required Background:**

- Firmware development experience using C and assembly languages on bare metal
- Proficient use of advanced development/debugging tools; e.g., C compilers, linkers, ICE, logic analyzers, etc.
- Experience using embedded 8/16/32 bit processors such as Microchip PIC, ARM, PowerPC, and similar processors
- Familiarity with coding standards and best practices such as C99 and MISRA-C
- Experience with serial communication protocols such as I2C, SPI or similar methods
- Experience in design verification and validation, including design reviews, code reviews, test plans, etc.
- Ability to work and communicate well in a small team environment

**Desired Background & Skills:**

- Ethernet and CAN
- Bootloader development
- MATLAB development experience
- Multicore processor development
- Radar system and autonomous vehicle design
- Digital signal processing and image processing
- Engineering tool software application development

**Education**

- A minimum of 5+ years of experience
- BS Degree in Electrical, Electronic or Computer Engineering or other technical degree.

Please visit [www.preco.com](http://www.preco.com) for more company and product information.