

Senior GNSS Firmware Engineer

JAVAD GNSS Inc is looking for a motivated Senior Firmware Engineer join our USA team. In this role, you will be a US citizen or permanent resident, responsible for the architecture, design, implementation and validation of a state-of-the-art embedded timing, positioning and navigation software with GNSS, IMUs and other navigation sensors to deliver RTK positions, Heading and Attitude.

Duties

- Team authority on GNSS firmware and sensor fusion
- Lead the development of JAVAD's next generation Navigation Engine to compute position, velocity, and orientation of the GNSS receiver using satellite ranges coupled with additional sensors such as Inertial Measurement Units (IMU), magnetometers, speed sensors, lasers, cameras and odometers.
- Define and implement the architecture of the Navigation Engine to run efficiently on our embedded platforms with the team
- Ensure the flexibility, modularity and efficiency of the object-oriented software implementation starting from MATLAB and/or C++ prototypes
- Define interfaces and operational requirements for the Navigation Engine with the team
- Ensure electrical designs meet EMC compliance requirements for certification
- Contribute to continuous improvement of our development methodologies and tools
- Travel for technical meetings and high-level system design discussions

Qualifications

- Master's degree in computer science, electrical engineering or equivalent, with 5 years' experience in GNSS & RTK firmware development
- Excellent programming skills in C and C++, with a thorough understanding of modern C++ and the standard library
- Understand complicated GNSS, INS and navigation algorithms, their implementation in software, and their optimization for efficient operation
- Excellent understanding of software development life cycles and use of related tools (issue tracking, git, Jenkins or GitLab, design documentation, etc.)
- Excellent understanding of embedded software engineering (memory management, linking process, firmware startup, Realtime OS).
- Good communication skills in fluent English (written and spoken)

Desired

The additional experiences are a plus:

- Geomatics Applications
- Aerospace Applications
- GNSS + INS Tight Integration
- Anti-Spoofing & Anti-Jamming

JAVAD GNSS, Inc also provides full-time eligible employees access to a comprehensive medical, vision and dental coverage, as well as the option of participating in our 401(k)-retirement plan, short and long term disability insurance, life insurance and various other benefits.

JAVAD GNSS, Inc. provides equal opportunity in all of our employment practices to all qualified employees and applicants without regard to race, color, religion, gender, national origin, age, disability, marital status, military status, genetic information or any other category protected by federal, state and local laws. This policy applies to all aspects of the employment relationship, including recruitment, hiring, compensation, promotion, transfer, disciplinary action, layoff, return from layoff, training and social, and recreational programs. All such employment decisions will be made without unlawfully discriminating on any prohibited basis.