

Senior GNSS Firmware Engineer

JAVAD GNSS Inc is looking for a 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 positioning, navigation and timing firmware utilizing GNSS, IMUs and other navigation sensors to deliver assured PNT solutions.

Duties

- Team authority on GNSS firmware and sensor fusion
- Lead the development and maintenance of JAVAD's Navigation Engine to compute position, velocity, time and orientation using GNSS 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
- Contribute to continuous improvement of our development methodologies and tools
- Travel for technical meetings, presentations 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 GNSS, PPP, INS and navigation algorithms, and the implementation and optimization in firmware for efficient operation
- Experience in GNSS acquisition, tracking, multipath, spoofing & jamming mitigation and alternate positioning system technologies
- 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
- GNSS industry standards and protocols such as RTCM, NMEA & SBAS.

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.