

JOB LISTING

SENIOR EMBEDDED SOFTWARE ENGINEER



POSITION

Senior Embedded Software Engineer

LOCATION

Dallas, TX

DESCRIPTION

VectorNav is seeking a Senior Embedded Software Engineer to lead a small highly skilled embedded firmware team, responsible for software design, development, and maintenance of the embedded software for VectorNav's sensor products. You will report directly to the President & CTO for long-term product life-cycle planning, and will work closely with our Chief Engineer for QA, release testing, and in-field customer related support.

The ideal candidate must possess a "can-do" attitude with demonstrated interpersonal and organizational abilities. A candidate for this position must also be able and willing to become involved in other areas of software development.

The ability to perform low-level development on resource-constrained platforms without OS-level support is important. The engineer also needs to be able to perform extensive software troubleshooting and debugging in an embedded environment using standard electronic test equipment. The abilities to work with a small nimble team of other highly talented developers in an accelerated development environment with dynamically evolving design requirements is highly valued.

PRINCIPAL DUTIES AND AREAS OF RESPONSIBILITIES

- Must be able to program proficiently using C language for embedded systems.
- Target embedded processors: ST Micro - STM32F4 / STM32F7 / STM32H7.
- Develop for target environments without an operating system ("bare metal").
- Create software drivers for hardware interfaces: RS-232, I2C, SPI, CAN, USB, and Ethernet.
- Develop using IDEs on PCs: Keil ARM uVision.
- Work with evaluation boards from chip manufacturing companies before product hardware is available.
- Work with hardware engineers to debug and solve issues with newly developed hardware.
- Design software systems and subsystems.
- Perform software configuration control using SVN.
- Integrate and test software/firmware in a lab environment.
- Debug and troubleshoot firmware.
- Utilize common electronic test equipment.
- Perform release testing for new firmware prior to release to customers.
- Assist with customer support for firmware related issues.
- Understand, support, and maintain existing legacy code.
- Determine system requirements and design specifications both from documentation, and sometimes from informal communication including discussions with co-workers and exchange of e-mail.
- Generate requirements and a plan for system integration and design validation.
- Assist in the defining, checkout, and debugging of new hardware designs.
- Support the Engineering Department to resolve technical problems related to product firmware.
- Provide telephone and email support for field service personnel on an as-needed basis.

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DESIRED SKILLS AND EXPERIENCE

- Must have the flexibility to adapt to changing requirements during the development process.
- Plan and manage the product firmware development and release schedule.
- Be well-versed in good software development processes and able to effectively manage your own process.
- Experience with hard real-time systems
- Experience with sensor fusion techniques desired
- Create simple and highly maintainable software designs.
- Create high-quality code in a quick and efficient manner.
- Ability to integrate and test code.
- Track and resolve software issues without close supervision.
- Must be comfortable working in a team environment including during the system test stage.
- A BS degree in either Computer Science or a related Engineer field.
- At least 6 years of prior experience with embedded software development.

BENEFITS AND PERKS

- Flexible office hours, private office Paid holidays, PTO accrual, & floating personal days off
- Top notch medical, dental, and vision insurance
- Stocked kitchen with healthy, and not-so-healthy snacks and drinks
- Break-room with arcade, pool table, ping-pong, video games, etc.
- Catered Friday lunches, semi-annual parties, and other office events

ABOUT VECTORNAV

VectorNav Technologies is the leading innovator and manufacturer of embedded navigation solutions using the latest in MEMS inertial sensor and GPS/GNSS technology. Since our founding in 2008, we have assembled a team of highly motivated and talented professionals, engineers and entrepreneurs to accomplish our vision: become the global leader in embedded navigation solutions. We are a fast-growing, dynamic company looking for team members to join us and help realize our vision.

VectorNav Technologies is headquartered in Dallas, TX, USA and is an AS9100 certified company.

VectorNav Technologies

10501 Markison Road

Dallas, TX 75238, USA

tel +1 512 772 3615

fax +1 512 772 3086

email careers@vectornav.com

web www.vectornav.com