



## **Sr. Firmware Engineer - Rochester, New York**

IDEX America Inc. and its parent company IDEX ASA, a leading developer of fingerprint sensor devices, is building a development site in Rochester, NY and looking for a Lead Firmware Engineer to help build a local firmware team and manage firmware development activities at the site. As Sr. Firmware Engineer, you will report to the site Principal System Architect and work closely with the Research, System Engineering and Software teams to deliver high volume products based on cutting-edge sensor technologies into the marketplace.

### **Tasks and responsibilities:**

- Participate in low-level ASIC firmware development of sensing algorithms, power management, host communication and diagnostic subsystems.
- Independently develop firmware and software solutions as part of a geographically distributed team
- Develop PC-based analysis, diagnostic and system bring-up tools
- Establish and promote best software practices throughout the company
- Undertake open ended design and investigation activities based on internal and external customer input
- Ensure coherent and professional communication with peer groups
- Coordinate and create technical information and documentation within firmware development groups
- Ensure timely status reports on projects
- Support existing projects
- Design and implement firmware and ensure implementation meets requirements
- Work closely with Business Unit product teams including System and SW architecture, SoC, IP Core development and design verification and validation
- Perform technical analysis across multiple domains such as system-level partitioning, use-case definition, system BW analysis, firmware subsystem architecture, sensor modeling and performance estimation, system power consumption for various use cases, power management and low-power design.
- Ensure timely and successful delivery of projects

### **Required Experience:**

- At least 7 years of Embedded Firmware / Embedded System development experience
- Experience with systems that utilize firmware development; software development; electronic circuit design
- To be able to work within a multi-discipline team
- System modeling and simulation experience using Matlab and related tools
- Excellent problem solving and debugging skills

### **Desirable Experience:**

- Embedded System Architecture and Systems Partitioning experience
- Capacitive Touch experience
- Recent mobile handset or tablet experience is highly desirable.
- Recent experience with SPI & USB communications highly desirable
- Mix of hardware, software and firmware experience highly desirable

### **Education:**

- Bachelor or Master degree in Electrical Engineering, Computer Engineering or related disciplines
- Highly motivated and excited by the prospect of working on innovative technologies in a fast-paced environment

### **Personal capabilities:**

- Ambitious; able to work independently; self-assured and outgoing; dependable and able to deliver
- Creative, pragmatic and easy to work with
- Enjoying responsibility for a diverse portfolio of projects and assignments



- Excellent communication skills
- Quality conscious with an eye for detail
- Structured and documented work methods

**Potential:** IDEX is a pioneering company in fingerprint sensing technology. We are technically advanced in our field. The organization is small and compact, and we have informal and stimulating work environment. There is a spectrum of challenges and you will have an opportunity to grow with us. You will have extensive contact with customers, suppliers and management. We offer competitive compensation and terms and a share-based incentive scheme.

**Work place:** Full-time position in Rochester, New York

**Travel activity:** Infrequent domestic and international travel, depending on projects

**IDEX ASA:** IDEX ASA specialises in fingerprint imaging and recognition technology. IDEX's vision is to ensure individuals a safe, secure, and user-friendly use of personal ID.

IDEX has developed the award-winning SmartFinger® technology platform based on the company's core intellectual property, including the patented fingerprint imaging principle, sensing scheme and chip design. SmartFinger solutions can be integrated into a variety of embedded applications such as mobile phones, Smartcards, payment and ID cards, and IoT devices.

**Web site:** [www.idex.no](http://www.idex.no)

**Contact:** careers(at)idexus.com