



## Principal Digital Architect - Rochester, New York

IDEX America Inc. and its parent company IDEX ASA, a leading developer of fingerprint sensor devices, is building an ASIC Development site in Rochester, NY and is seeking an experienced Digital ASIC leader to architect and manage the development of state-of-the-art embedded systems for fingerprint sensing functions. As Principal Digital Architect, you will report to the Vice President, ASIC Development and manage the site digital architecture and design activity. You will work closely with colleagues in the ASIC Development organization as well as with the IDEX R&D, System Engineering and Sensor Development teams to deliver high-volume products based on cutting-edge sensor technologies into Mobile, Smart Card and IoT markets.

### Tasks and responsibilities:

- Recruit and manage a team of digital engineers focused on development of embedded system ASICs and peripheral devices
- Drive digital design, integration, verification and validation process flow and corresponding tool selection
- Manage selection and integration of externally developed IP
- Develop digital system analysis tools / aids for internal and external use
- Undertake open-ended design projects based on marketing and customer input
- Create customer-facing digital architectural and circuit presentations and training materials
- Ensure timely status reports on projects
- Support existing projects
- Meeting customers on and off site as required
- Provide technical leadership, in supporting full product lifecycle from initial concept through to product development into production ramp.
- Responsible for detailed requirements and guide architecture definition.
- Contribute to architecture evolution in line with future product requirements
- Help build differentiated roadmap in conjunction with marketing

### Required Experience:

- 10 or more years of experience in design / development of digital ASICs
- Experience leading embedded ASIC development team
- Experience in specifying, procuring and integrating externally developed processor and digital IP
- Ability to create detailed written specifications of complex circuits and systems
- Ability to explain complex design concepts at various levels of detail for different audiences
- Creativity and Analysis skills with ability to research and devise new circuits and architectures
- Excellent problem solving and debugging skills

### Desirable Experience:

- Capacitive Touch sensing experience
- Excellent written and communication skills
- Ability to work effectively within a geographically distributed, cross-functional team organization
- Ability to effectively transfer knowledge within the organization

### Education:

- BS / MS in Electrical or Computer Engineering, or related field

### Personal capabilities:

- Excellent people skills and ability to lead/inspire teams
- 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
- 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:** Occasional 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