



Senior Mixed-Signal Verification Engineer – Rochester, New York

IDEX America Inc. and its parent company IDEX ASA, a leading developer of fingerprint sensor devices, are expanding an ASIC Development site in Rochester, NY and are seeking an experienced Mixed-Signal Verification engineer to assist in the development of state-of-the-art embedded systems for fingerprint sensing functions. As a Senior Mixed-Signal Verification Engineer, you will work closely with colleagues in the Silicon Engineering organization as well as with the IDEX R&D, System Engineering, Software 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:

- Lead mixed-signal and digital verification effort focused on development of embedded system ASICs and peripheral devices
- Closely work with design, firmware and system teams to define and develop top level and block verification
- Architect and develop a reusable and scalable verification method, environment and verification IP.
- Drive top level and block level verification effort with the company verification methodology.
- Lead creation and verification of behavioral models for mixed-signal IP.
- Create and maintain Verification plan. Evaluate against project mile stones to ensure project execution.
- Manage regression and report verification closure and coverage
- Assist silicon validation and production test program development

Required Experience:

- Solid experience in design or verification of mixed-signal or digital ASICs
- Familiar with Cadence Virtuoso, Verilog, Verilog-AMS, VHDL
- Familiar with analog and digital simulations such as AMS, Spectre, Incisive
- Excellent understanding of mixed-signal MCU and its components. Familiar with usage models for the MCU.
- Expert in UVM based verification methodology
- Knowledgeable in coverage extraction, creation and implementation
- Experience in assertion based methodologies
- Ability to automate verification and regression tests using scripts
- Collaborative and good communication skills to work with design and cross functional teams including external contractors
- Excellent in debugging and problem solving

Desirable Experience:

- Experience in integrating and verifying externally developed processors, analog and digital IP
- Ability to work effectively within a geographically distributed, cross-functional team organization
- Perl, Python, tcl, C, C++, System C skills.
- Experience working with silicon validation or test team to bring silicon to volume production
- Experience in leading design or verification team
- Firmware and FPGA/board level verification and testing

Education:

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

Personal capabilities:

- 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 specializes 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, payment and ID cards, and IoT devices.
- Web site:** www.idex.no
- Contact:** careers[at]idexus.com