

Analog mixed-signal sensor design engineer

Job Description

As a Sensor Designer, you will play a key role in pushing the boundaries of our core product. You will be responsible for the design of scalable solutions for our novel low-current detection sensor product.

Responsibilities:

- Design low-power low-current CMOS circuits for scalable sensor systems and sensor signal processing
- Implement the full analog/mixed-signal IC development cycle (concept, specification, system design, transistor-level circuit design, analog and mixed-mode simulation, layout, verification, validation).
- Design, simulate and verify integrated circuit designs using Cadence design tools on circuit level (Spice) and system level (VHDL-A/Verilog-A/SystemC/Matlab).
- Participate to characterization of integrated circuits, validate new designs with bench testing at wafer and package levels.
- Work with product, application, and marketing engineers to successfully launch new designs into production.

Qualifications:

- Masters or PhD in Electrical Engineering focus on analog circuit design, device physics, and semiconductor process technology.
- 2-5 years hands-on experience of CMOS analog/mixed IC design, simulation, layout verification and characterization.
- Experience in analog circuit design, switched cap circuits, OPAs/OTAs, bandgap, A/D, D/A, PLLs, LDOs, I/V references
- CMOS image sensor or memory design experience is preferred
- Experience in PCB design is desirable

Personal skills:

- Work well with multi-discipline engineer team
- Strong problem-solving skills, mathematical background and analytical skills
- Flexible to dynamic environments and fast changing technologies
- Passionate about technology