

Senior Electronics Engineer

Job Description: Senseker Engineering is looking for an Electronics Engineer to join our team and take lead over our new electronics developments as well as support our existing electronics product builds. The electronics breadth at Senseker includes infrared electronics test sets, evaluation kits for new integrated circuits, working with our FPGA camera back-end suppliers on new developments and many different types of PCB designs. This position will have the opportunity to work on all stages of design, from the early concept research all the way through to detailed design, installation and production. The candidate should be comfortable working in a relaxed yet professional small business environment with a highly capable team.

Work Experience: 5 years required, 7+ years preferred

Required Education: Bachelor's degree in Electrical Engineering

Preferred Education: Master's degree in Electrical Engineering

Job Responsibilities

- Take the lead on our electronics strategy and systems, collaborating closely with product and test groups
- Become the prime interface to our electronics suppliers
- Design, test and debug electronics in support of existing and new product lines
- Develop HDL code to support board-level design and link them to our integrated circuit designs
- Work with software and test teams to smooth electronics and firmware interfaces to software systems
- Perform general troubleshooting for internal teams and external customers
- Contribute and build presentations for internal and external audiences
- Work with Production Control and Project Management to update schedules and complete action items
- Work with Compliance to ensure design and development processes follow our AS9100 system
- Interface with IC Designers early in the design cycle to ensure new electronics plans are tightly linked with new integrated circuit designs

Required Attributes:

- US Person status **required**, pursuant to the terms of government contracts with Senseker*
- Comfortable with analog electronics design and development (noise, routing, cross-talk, floor planning)
- Understanding of Verilog and/or VHDL and experience with associated digital data flow systems
- Comfortable with physical digital data transmission using LVDS or CML
- General understanding of analog data transmission and associated digital conversion
- Highly organized with a drive to build new and better processes
- Able to follow detailed descriptions, block diagrams, schematics and lists of parts and pins
- Hands-on experience testing products using supplies, logic analyzers, oscilloscopes, signal generators, and various test electronics
- Expertise with PCB design and layout software

Desired Attributes:

- Expertise with Altium design software
- Comfortable with image sensor transmission standards such as MIPI, CoaXPress, GigE and Camera Link
- Experience with serial communication interfaces (e.g., SPI, I²C, SMBus, PMBus)
- Experience with vacuum and cryogenic systems (e.g., feedthrough technologies, vacuum/thermal packaging and hardware considerations)
- System-level modeling expertise (e.g., noise modeling and propagation, power budgeting)
- Experience working with Xilinx, Altera, and Lattice FPGA systems (our suppliers do the heavy lifting)
- Experience in the sensor design industries
- Signal Processing experience
- MATLAB/Simulink experience



Job Type and Location: Full-time in Santa Barbara, CA, USA

Benefits: Competitive compensation, development opportunity, flexible schedule, relaxed working environment, located in a great beachside community.

Submit your resume at www.senseeker.com or email it to careers@senseeker.com

**This position requires work on projects which are protected under US ITAR laws, consequently, only US Persons will be considered for this position by law. For this purpose, the term "US person" means an individual who is a citizen of the United States, a lawful permanent resident alien of the US (e.g., a "Green Card" holder), a refugee, or someone in the US as a protected political asylee, or under amnesty.*

Senseeker Engineering Inc. is an equal opportunity employer and considers qualified applications for employment without regard to sexual orientation, gender identity, gender expression, race, color, sex, creed, religion, national origin, age, disability, veteran status, or any other protected class.