

## Electronics Engineer II/III

Sensor Concepts, LLC is part of the Raptor Scientific Corporation, a global Aerospace & Defense test and measurement company with a focus on electronic and mechanical testing products and solutions. SCI specializes in radar cross section (RCS) measurements with emphasis on radar systems, data reduction, analysis, algorithm development and field measurements is looking for a motivated Electronics Design Engineer to join their talented team. Sensor Concepts is located off 580 and Greenville Rd., providing easy access to South Bay and Valley commuters. You can learn more about our company by visiting our website at: [www.sensorconcepts.com](http://www.sensorconcepts.com).

Position hours are Monday through Thursday 7:30 a.m. -5:00 p.m. and every other Friday 7:30 a.m. - 4:00 p.m.

### POSITION HIGHLIGHTS

This individual will be part of a team of engineers who are responsible for design, development, integration, troubleshooting and support of electronic and embedded designs for our cutting edge radar measurement and analysis systems. This position is responsible for realizing creative solutions to electronic design problems given high-level requirements. Primary job functions include analog, digital and RF circuit design, PCB schematic entry and layout, embedded software design, as well as hardware debugging and test. This individual must be creative with regard to improving the process, yet be disciplined when performing routine and repetitive tasks. This position offers an ideal opportunity to grow with the company.

### RESPONSIBILITIES

- Analog circuit design and layout including; power supplies, amplifiers, ADC drivers.
- Digital circuit design and layout including; FPGAs, Microcontrollers, High-Speed Memory.
- RF circuit design and layout including; mixers, filters, switches, amplifiers and synthesizers.
- PCB design from concept through schematic and layout using PADS.
- Interface with board vendors during the fabrication and assembly of the boards.
- Embedded software design, coding, test and support.
- Design verification and testing.
- Creation of interface control documents.
- Support and develop test programs and procedures.
- Contribute to system design including chassis layout, wire assemblies and interconnects.

### REQUIREMENTS

- 3 - 6 years hands-on PCB design experience, to include schematic generation and board layout using PADS
- Strong signal and systems analysis skills
- Demonstrated experience in design, development and test of electronic systems and components.
- Knowledge of hazardous location design and requirements.
- RF/Microwave experience.
- Working knowledge of FPGA and microcontroller architectures
- Ability to debug and troubleshoot from system to component level.
- Ability to communicate across disciplines.
- Ability to prioritize in a dynamic environment.

## **OTHER SKILLS:**

- Embedded Software development a plus.
- Familiarity with current generation of interfaces, to include Ethernet, RS-232, GPIB, USB, and SPI protocols.
- Understanding of electromagnetics and circuit simulation.
- Experience in regulated design environment a plus - specifically, ISO/AS registered.
- Excellent verbal and written communication skills.
- Ability to prioritize in a dynamic environment.
- Ability to work independently and as part of a small team.
- Fluent with MS Office products, to include Outlook, Word, Excel, and Powerpoint.
- Physical ability to lift or assist in lifting large items up to 40 lbs.
- Ability to stand for up to 4 hours a day and/or sit, type and use mouse for up to 6 hours a day.
- Flexible and adaptable to meet changing needs within the department

## **EDUCATION**

This position requires a BS degree in Electronics Engineering or related field as a minimum.

Please send resumes to: [recruiting@sensorconcepts.com](mailto:recruiting@sensorconcepts.com)

*Applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information which includes US Citizenship.*

SCI is an affirmative action/ equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, marital status, national origin, ancestry, sex, sexual orientation, disability, medical condition, protected veteran status, age, citizenship, or any other characteristic protected by law.