

POSITION DESCRIPTION

Position title: Sr. Electrical Engineer III and IV

Reports to: Principal Engineer

Summary:

This position is responsible for performing electrical engineering design and test for multiple airborne Aerospace avionics, Li-Ion battery and small satellite projects

Responsibilities:

- Design, layout and test electrical printed circuit boards
- Unit design and electrical layout, Processor/Com Port integration and test
- FPGA firmware and Microcontroller Software
- Creation of Electronics BOMs
- Provide schedule input to program manager
- Space environmental testing (thermal cycle, vibration, shock, EMI, etc.)
- Write engineering documentation to meet customer design requirements
- Engineering Contract Data Requirement List (CDRLs) including worst case circuit analysis, reliability analysis, As designed and As built parts and material lists, etc.

Required Competencies:

Experience

- 10-20 years of experience in the following areas: electronics design, embedded software engineering, systems engineering, and analysis and interpretation of physical phenomena or engineering data.

Technical Skills

- Proficient in all phases of engineering development (requirements, design, test and production)
- PCB Layout and Design with Eagle and/or Altium
- Electronics Design Simulation and Modeling
- Solid Works for electrical and mechanical drawings
- Avionics and power system expertise
- FPGA and Microcontroller (PIC, etc.) and embedded software

Soft Skills

- Strong interpersonal skills
- Work in an engineering team to reach the next level of excellence
- Ability to write technical documents and procedures

Education

- B.S. Electrical and/or Computer Engineering (M.S. preferred)

Desired Competencies:

Technical Skills

- Experience in electronics and software embedded system development
- Eagle and/or Altium for Electrical Board layout

- Solid Works for electrical and mechanical drawings
- Exposure to embedded software microcontroller programming
- Communication Ports (RS-232/422/485, CAN, Ethernet, 1553, etc.)
- Microsoft Office (Word, PPT, Excel, Visio and Sharepoint)

Personal Requirements

- Do you have an entrepreneurial spirit and desire to be part of an innovative team that designs and manufactures state-of-the-art avionics, power and nano/micro satellites. Put your skills to work and develop innovative products for Space launch vehicles and small satellites.
- **ITAR Requirements**
To conform to U.S. Government space technology export regulations, **applicant must be a U.S. citizen**, lawful permanent resident of the U.S., protected individual as defined by ITAR (22 CFR §120.15) or eligible to obtain the required authorizations from the U.S. Department of State.
- *SIL is committed to creating a diverse environment and is proud to be an equal opportunity employer. Each individual has the right to work in a professional environment that promotes equal employment opportunity and prohibits discriminatory practices, including harassment. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.*
- The SIL Full time position offers challenge and growth with excellent salary and benefits package including comprehensive health insurance benefits and 401-K

Salary Range based on experience: \$115,000 to 135,000

Resume and Letters of reference to: hr@spaceinformationlabs.com