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**Electrical Engineer**

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Sporian Microsystems, Inc. develops and sells a range of advanced sensor systems and has a current opening for an electrical engineer. Sporian requires a person with a strong electronics background to conduct design, analysis, and review related tasks for analog or mixed signal circuits for use with sensor devices being developed by Sporian. Sporian also desires a person who has an interest in and is capable of managing projects and performing in a principal investigator (PI) role while also contributing to the technical aspects of those projects. This person must thrive in a highly multidisciplinary, dynamic, and fast paced environment. The successful candidate will be expected to work with project managers, engineers, customers, subcontractors, and suppliers, to develop project plans, specifications, and performance requirements. The successful candidate will also have demonstrated ability to define system and subsystem designs from the conceptual to detailed levels, to compare, evaluate, and select components, and to build, test, and troubleshoot prototypes. Sporian is seeking a detail oriented engineer who is able to evaluate design options and confidently choose the solution that best suits the technology goals.

**Education Requirements:** This position requires an individual with a BS or MS degree in electrical engineering.

**Required Skills/Qualifications:**

- 6+ years of experience with analog, mixed signal, and/or microcontroller circuit design.
- High level of comfort with both schematic capture and PCB layout tasks.
- Strong knowledge of analog circuit theory and design.
- Strong analog/mixed signal design skills.
- Previous hands on experience/work history constructing/testing analog and mixed signal circuits.
- Ability to propose and simulate circuit designs using analytical and numerical methods.
- Hands on board/system construction experience including basic component assembly, soldering, prototyping, fabrication, verification, characterization, debugging, and troubleshooting skills.
- Ability to self-generate design and development schedules and project tasks.
- Ability to generate design requirements and specifications.
- Ability to quickly transition between disparate efforts and responsibilities.
- Ability to work in a multidisciplinary R&D environment
- Strong written and verbal communications skills.
- Willingness and ability to learn quickly and contribute in areas outside of prior experience.
- Self-motivated with positive attitude to pursue excellence. Results oriented problem solving research capability. Define plans, schedule, and organize for maximize productivity and efficiency.
- This position requires work on DoD contracts that require US Citizenship status.

**Desirable (but not required) Technical Experience:**

- Experience with the Altium tool chain
- Prior research/R&D experience.
- Prior experience serving in a Principle Investigator (PI) role.
- Prior experience in a product development environment.
- Experience with PSpice and/or LabView.
- Low power and ultra-low power design.
- RF design experience.

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- Strong understanding of microcontroller configuration and use, with the ability to communicate functional requirements and specifications to firmware engineers.
- Strong technical writing skills and research documentation habits.

**Additional Expectations:**

Life-long learner

Multi-tasking

Detail oriented

Flexible

Team player

Self-motivated

Customer oriented

Proficient with MS-Office and Internet

**Physical Context/Work Environment:** Sporian Microsystems, Inc. is conveniently located in Lafayette near to US-287 in Boulder County, and close to Broomfield, Louisville and Erie. Work is typically conducted in both an office environment and a lab environment with occasional travel locally to nearby businesses and infrequent travel both domestically and internationally.

If you are interested in this job opportunity, please email a cover letter that describes how your skills and experience fulfill the above requirements along with your resume to [ee1704@sporian.com](mailto:ee1704@sporian.com) and reference: W – Electrical Engineer in the subject line.

We are an equal opportunity employer. Qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, or national origin.