



## ELECTRICAL ENGINEERING INTERN

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### **Job Responsibilities**

- Fully participate in and support the Fulcrum Concepts Quality Management System
- Assist with designing major components, or major portions of a functional system, or technically advanced prototype, promotional or specific products/projects
- Assist with the development or improvement of products and facilitate manufacturing operations
- Assist with making layouts of assemblies and details parts of devices, systems, and products
- Help contribute to the development of electrical, electromechanical, electronic and weapons systems using 3D CAD software (Solidworks), and EDA software (KiCAD).
- Assist solving mathematical problems, performing electrical loads and ampacity analysis. Performing various analyses for electronic systems design.
- Assist developing electronic system models, research, testing and data reduction
- Apply engineering principles to solve technically complex design problems
- Understand customer requirements, work well in a team environment, and communicate effectively individually and in groups
- Assist engineering team with training tools, various administrative projects, and other programmatic tasks to fulfill program requirements.

### **Personal Attributes**

- Self-starter, highly motivated, exceptional work ethic
- Superior attention to detail, focused, quick learner
- Exceptional character and integrity
- Excellent attention to detail
- Proactive problem solver
- Leadership attributes a must
- Enjoys challenges, a fast-paced environment, creating technical drawings and models, and working on a diverse problem set

### **Knowledge And Experience**

- Articulated interest in Electrical/Electronic design, analysis, and prototyping/testing.
- Demonstrated knowledge and skills in Electrical/Electronic development
- Experience working in teams to accomplish tasks and meet mutual objectives
- Proficiency using Python or similar programming language to create internal tools and manipulate complex datasets.
- Strong math skills and ability to learn complex engineering concepts

*Give me a lever long enough, and a fulcrum on which to place it, and I shall move the world -Archimedes*



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**Additional skills that are not required but beneficial include:**

- Prior military experience or involvement in DoD projects and applications
- Active DoD Security Clearance
- General knowledge of aerospace fabrication practices, tolerances, and design standards as it pertains to electrical system design, analysis, and assembly
- Knowledge of aerospace drafting standards as is it pertains to electrical system design.
- General knowledge of FPGA design and testing.
- General knowledge of software development practices and architecture design.
- Ability to clearly articulate technical ideas and concepts using verbal and written communication skills

**Security Clearance Requirement**

- Subject to a security investigation and may need to meet eligibility requirements for access to classified information and a SECRET, TS, or TS/SCI clearance may be required as well.

**Education**

- Pursuing a bachelor's degree in Electrical Engineering or closely related field
- 3.5 or higher cumulative GPA, rising senior at time of employment

**Benefits include:**

- 401(k) Safe Harbor Savings Plan
- Medical, Dental, and Vision Insurance Plans
- Short and Long Term and Disability
- Vacation and Sick Leave Packages
- 12 Paid Holidays each year
- 9/80 Work Schedule

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***The assigned personnel are responsible for the listed duties and responsibilities plus any other direction and responsibilities assigned by the Managing Members.***

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Fulcrum Concepts, LLC is a service disabled, veteran-owned, small business that provides innovative services and products to solve requirements for its customers. Fulcrum Concepts, LLC specializes in solutions for tactical aviation organizations and is structured to provide comprehensive solutions that begin with an initial requirement and end with fielded products. At Fulcrum Concepts, the unique combination of operational experience and a robust aerospace engineering capability enable the company to provide elegant, lightweight, enduring solutions for its customers.



Fulcrum Concepts, LLC provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, sex, national origin, age, disability, or genetics. In addition to federal law requirements, Fulcrum Concepts, LLC complies with applicable state and local laws governing nondiscrimination in employment. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation, and training.

