



SYSTEMS ARCHITECT

You will lead all phases of the system development life cycle, including concept of operations (CONOPS) development, requirements development, analysis and decomposition, software and hardware system design, algorithm design, risk management, integration, test and documentation. The successful candidate will be leading system/subsystem level architecture definition and design of next generation weapons management systems.

Job Responsibilities

- Lead aircraft system and sub-system level weapons management system development for current and future weapons systems
- Establish requirements definition, multi-functional interface definition, open architecture integration, functional analysis, and system design activities
- Create system level trade studies and briefings. Create system level verification, validation, integration and test planning and execution (including functional validation as well as formal requirements sell-off)
- Design hardware and software (working knowledge) for open architecture future aircraft weapons management/interface
- Coordinate system GUI development and communications/integration with existing aircraft systems

Knowledge and Experience

- 10+ years of systems engineering experience involving broad based aircraft systems design, or 6+ years direct experience designing weapons management systems
- Excellent communication skills, and ability to interact well in group meeting/working environments
- Self-starter that works independently to formulate and execute project plans, complete and track assigned tasks Strong knowledge of mission systems architecture development, integration, and testing
- Experience working in multi-disciplinary design and development teams
- Able to demonstrate a comprehensive working knowledge of regulatory and applicable airworthiness requirements including MIL-HDBK-516C requirements
- Understand Systems Engineering product lifecycle management
- Plan, collect, analyze and review scientific and technical data
- Experience with weapon systems management, control, and communication and supported technologies

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



804.785.1017
804.785.1081 [fax]



FulcrumConceptsLLC.com
info@FulcrumConceptsLLC.com



1776 Patriot Way
Mattaponi VA 23110

- Experience with design, analysis, and test of complex mission systems IAW MIL-STD-461, MIL-STD-882, MIL-STD-810, and MIL-HDBK-516
- Experience leading Systems Architecture development and architecture products for Systems of Systems (SoS)
- Define system requirements and open architectures based on customer needs
- Experience with Open Mission Systems (OMS) subsystem architecture
- Experience with complex digital design, digital signal processing (1553), and analog data communication protocols/systems (1760)
- Familiarity with test equipment (Signal Generator, Spectrum Analyzer, Network Analyzer)
- Review technology timelines, program schedules and requirements documents to generate realistic, detailed plans and schedules for customers
- Forward thinking regarding modernization efforts , i.e. future weapons and systems
- Familiarity with engineering best practices, established history of taking products from design & development to production, including troubleshooting, integration & test, customer demonstration, to full qualification and fielding
- The ability to obtain and maintain a Security Clearance may be required

Additional skills that are not required but beneficial include:

- Experience with large scale end-to-end aircraft weapons management systems architecture development

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

- Bachelor's Degree or higher from an accredited course of study, in engineering, computer science, mathematics, or physics



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

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

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.

