

CONTROLS ENGINEER



Requisition Number: 20-01
Job Title: Controls Engineer
Career Level: Mid-Level
Location: Littleton, Colorado
Relocation: Negotiable
Education Required: BS, MS, or equivalent experience in Electrical, Aerospace, or Controls Engineering.
Years of Experience: 5-10 years
Travel: As Necessary

Job Description: Oakman Aerospace, Inc. (OAI) is seeking a full-time Controls Engineer to provide design, development, and validation of control algorithms for use in an open system modular architecture modelling and simulation environment. The position will consist of applying control theory principles to physics based modeling and simulation for development of environment, component, and behavioral models. The engineer will aid in the design, development, testing, and documentation of software control algorithms within the OAI simulation framework. Candidates should be self-starters and require limited oversight in daily tasking. In addition, the successful candidate will participate in developing project schedules, coordinate with team activities, track subsystems technical status and coordinate activities with senior management. Exposure to Systems Engineering principles is also helpful, as it will facilitate identifying and specifying the overall design approach to be taken, as well as requirement creation and design documentation.

- Basic Qualifications:**
- Self-motivated; performs tasks with minimal oversight
 - Experience in a multi-discipline engineering design and development environment
 - Proficient in Microsoft Excel, PowerPoint, Word
 - Excellent verbal and written communication skills; the ability to professionally communicate and coordinate with a wide range of external program sponsors as well as internal management
 - Sound time management skills, attention to detail, and priority management to meet deadlines.
 - Must be results-oriented with the ability to change priorities as needed
 - Strong analytical and problem solving skills

- Required Skills & Knowledge:**
- Must have a strong background in one or more of the following; control system design, feedback control theory, system modeling, digital and modern control systems, or numerical methods.
 - Development of simulation kinematics models
 - Development of State Estimators using Kalman filters, particle filters, IMM, etc.
 - Analysis and optimization of control algorithms in both simulation and empirical test
 - Experience programming with C/C++

- Desired Skills:**
- Object Oriented Analysis and Design techniques
 - Experience with formal software development practices including software version control, coding standards and naming conventions
 - Experience across the software development lifecycle with an emphasis on rigorous development practices for flight hardware
 - Experience in electronic system and subsystem design and test, systems analysis, software-driven operations and test schemes
 - Experience with designing algorithms for real time execution
 - Experience with inertial navigation systems and control subsystems
 - Knowledge of aerospace engineering principles or flight software development
 - Past use or familiarity with UNIX and LINUX operating systems as well as Microsoft products

About OAI:

OAI is on a mission to advance the future of space through innovative and groundbreaking technologies that Enable Your Journey Through Space. Our employees are the foundation of OAI and our products and services reflect their vision of the future. Our team members come from a variety of backgrounds and experiences, and have an unwavering commitment to always do the right thing for OAI's customers, teammates, and stakeholders. They leverage their own skills and that of their peers to unlock the next solution that will revolutionize space. Our company culture is driven by this passion for disruption in the space industry, fosters employee growth and development, and promotes collaboration within our community.