



Mechanical Design/Structural Engineer

Job Description

Martin UAV is actively building a team of world-class engineers to develop revolutionary unmanned aircraft systems technologies.

Martin UAV is seeking a first rate qualified Mechanical Engineer to join the team in development, test and initial production efforts for a VTOL UAV. The successful candidate will work closely with aerospace, mechanical, electrical, and manufacturing engineers. The ideal candidate should be able to contribute broadly but will be primarily responsible structural design and production development.

- Responsible for product engineering support and structural design and analysis.
- Structural design and optimization of new components and assemblies using both composite and metal materials.
- Provide stress analysis of composite and metal structures using Finite Element Modeling & classical hand calculations.
- Understand product design and features; be familiar with the manufacturing process and DFM.
- Manage product line configuration and change orders in Aras PLM system.
- Understand customer performance and configuration requirements for product.
- Act as the technical point of contact for ongoing support and change initiation, including managing manufacturing and customer issues escalated to engineering.
- Help coordinate the transition for new products and product variants into production.
- Coordinate the release and update of engineering design documentation, bills of materials, manufacturing procedures, product acceptance test procedures, and production tooling and test equipment.

Skills and Experience

- Required
 - 3+ years professional experience with clean-sheet new design of composite structure
 - 3+ years professional experience in structural analysis and FEA software
 - Experience in SolidWorks or equivalent 3D CAD
 - Experience with drawing setup, scale usage, dimensioning, labeling and plotting within a 2D and 3D environment
 - Effectively manage multiple priorities and deadlines
 - Ability to interact professionally with internal and external customers, subcontractors, and suppliers
 - Ability to work independently with minimal supervision
 - An inventive aptitude, balanced with discipline and attention to detail
- Desired
 - Experience using the Altair Hyperworks and Optistruct packages for structural design and optimization
 - Strong background in MATLAB



- Experience creating and releasing BTP packages and managing engineering changes in PLM software
- Experience designing tooling and fixtures for carbon composite assembly manufacturing
- Experience with production manufacturing techniques for aerospace
- Experience generating production documentation based on designs personally overseen
- Experience in design and fabrication of mechanical/mechatronic components
- Exceptional interpersonal, written, and verbal communication skills
- Strong customer service, quality, and team orientation
- Commitment to continuous improvement of knowledge, skills and abilities

Qualifications

- Bachelor degree in Mechanical or Aerospace Engineering or equivalent
- 3-10 years of work experience in aerospace or related field
- Applicants must be U.S. persons as defined by the ITAR (22 CFR §120.15).