



Aerospace/Mechanical Engineer

Job Description

At Martin UAV, our mission is to build the world's most advanced autonomous flying robots with a focus on safety, reliability and repeatable performance. Our technology team specializes in building tactical systems from the ground up and addressing the vast capability gaps left by legacy technologies. With decades of rapid design and build advancement, our platforms offer capabilities unmatched in the world.

We are currently seeking a driven and adaptable Aerospace Mechanical Engineer focused on hardware design, test and initial production efforts for our vertical take-off unmanned aerial vehicle. The successful candidate should be able to contribute broadly but will be primarily responsible for mechanical design and production development.

Responsibilities

Mechanical Design

The role will be responsible mechanical and structural design in a wide range of locations and applications within the air vehicle and its associated equipment. This will include designing parts and assemblies from a variety of materials including molded carbon composites, machined metallics, and additive plastics and guiding the project through its entire lifecycle. The role will involve the design of both new features and vehicles as well as the support and improvement of existing products. Appropriate levels of analysis will be required to prove and verify designs while constantly keeping in mind the effect of each change on vehicle level performance. When required, the engineer will design, supervise, and analyze test programs to support program goals. Formal engineering documentation of all designs and changes in the form of 2D drawings will be required.

Tooling Development

The role will be responsible for developing the tooling required to build parts and assemblies. This may include molds for composites pieces or other trim, drill, or assembly fixtures as required to manufacture a design and will involve close coordination with the manufacturing team.

Sub-Contract Management

The engineer will work closely with sub-contractors and suppliers to ensure they are able to deliver quality products on time to support program goals. This may involve limited travel to supplier sites and will involve close coordination on any project with which the engineer is involved. Technical design information must be imparted in a clear concise way to ensure sub-contractor success.

The ideal candidate will have been intimately involved with the development and flight testing of aircraft which may include military drones, research vehicles, hobby projects, or general aviation. The candidate must have exceptional organizational and self-management skills, be comfortable with a high pace startup environment, and be capable of adapting to new roles and areas of expertise.



Skills and Experience

Required

- Experience with aircraft fabrication, assembly, or modification
- Experience in SolidWorks or equivalent 3D CAD
- Strong background in MATLAB
- Knowledge of the aircraft design process, aircraft flight dynamics and control systems
- Experience with drawing setup, scale usage, dimensioning, labeling and plotting within a 2D and 3D environment
- 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
- Ability to coordinate the release and update of engineering design documentation, bills of materials, manufacturing procedures, product acceptance test procedures, and production tooling and test equipment.

Desired

- Experience designing tooling and fixtures for carbon composite assembly manufacturing
- Background in 3D printing
- Experience with LabVIEW
- Experience with FEM modeling of loads and structural elements
- Experience with CFD modeling of aircraft and subsystems
- Experience with production manufacturing techniques for aerospace
- Experience generating production documentation based on designs personally overseen
- Understanding of GD&T
- Experience in design and fabrication of mechanical/mechatronic components
- Effectively manage multiple priorities and deadlines
- Exceptional interpersonal, written, and verbal communication skills
- Strong customer service, quality, and team orientation
- Commitment to continuous improvement of knowledge, skills and abilities

Qualifications

- BS or MS in Aerospace or Mechanical Engineering is required.
- 3-7 years of relevant aerospace industry experience.
- Potential for up to 25% travel.
- Applicants must be U.S. persons as defined by the ITAR (22 CFR §120.15).

Martin UAV is located in Prosper, Texas. We offer a comprehensive benefits package including medical, dental, vision and life insurance, PTO days, and a 401(k) plan with company matching.

Contact our Careers Team at Careers@MartinUAV.com to submit a resume and a statement regarding your suitability for this position.