



Mechanical Engineer (Boston)

Top Flight Technologies (www.topflighttech.com) – the first commercial UAV manufacturer to utilize a hybrid propulsion engine for extended flight and enhanced payloads is seeking a Mechanical Engineer to be part of its engineering team. We are looking for individuals that have core design and problem-solving expertise, and that can work individually and on team project assignments. The work environment is centered on agile development, where designs are quickly tested, problems resolved, ideas improved, products built and tested. Candidates should have a passion for building innovative product solutions.

Yes, this is a well-funded startup; the work is demanding, and also really fun grasping new skills while working with other bright and energetic engineers and team members.

Essential Responsibilities/ Job Duties:

- Contribute to the design and development of mechanical/electromechanical systems.
- Generate concepts and solutions for new products as well as provide engineering support for existing products.
- Prototyping/testing, Design reviews, Verification & Validation.
- Participate in the all phases across multiple projects of design; DFMA, cost reductions.
- Organize Design of Experiments (DOE), Capture Design Specifications, Process Qualification, Validation Protocols/Reports, FMEA, and Statistical analysis.
- Evaluate product non-conformances and recommend design modifications.
- Evaluate, test, and review designs to verify performance to requirements and specifications.
- Investigate and determine root cause of emerging design, manufacturing or material defects.
- Analyze and provide feedback on collaborative design review forum.
- Contribute to thermal analysis, thermal management system design and thermal testing.

Qualifications:

- Bachelor's or Master's degree in Mechanical Engineering, Aerospace Engineering or equivalent from an accredited university.
- 5+ years of experience in mechanical design and manufacturing.

- 5+ years of experience with robotics or complex electro/mechanical systems.

Required Skills:

- Knowledge of heat transfer, thermal management, and cooling of motors and/or electronics.
- Experience in thermal testing techniques and instrumentation.
- Experience in strength of materials, materials selection, design for vibration environments and the ability to apply those principles to unique mechanical design challenges.
- The ability to perform structural analysis using industry simulation tools.
- Ability to build working prototypes, utilize 3D printing and other machinery for iterative design.
- Experience with Solidworks or Pro-E and AutoCAD.
- Experience designing parts for plastic injection molding, sheet metal, CNC machining, laser cutting, assembly strategies and finishing techniques.
- Experience with rapid prototype design and build for proof of concept and usability testing.
- Strong Computer skills (MS Word, Excel, PowerPoint, Outlook, Internet).
- Experience with unmanned systems (Fixed wing & VTOL platforms), flight controllers, power systems, sensors, navigation, communications, and RC based solutions all a plus.

What's in it for you?

- Work side by side with a world-class technology and business leadership team that is defining new markets in the growing domain space of unmanned systems and where the solutions are recognized as industry leaders.
- Tremendous growth opportunity; competitive compensation package including base salary, plus bonus, stock options and benefits.

You must be authorized to work in the United States on a full-time basis for any employer.

Please forward cover letter and resume to jobs@topflighttech.com for consideration.

No agencies please.