**Job Description: Senior Electrical Engineer**

**Department: Engineering**

**Reports To: Director of Systems Engineering**

**Job Title: Senior Electrical Engineer**

**Position Overview:**

Come join our growing team in support of the development of the next generation of power electronics for the Aerospace industry! As a pioneering designer, producer and supplier of advanced power conversion equipment, Avionic Instruments has helped power flight for more than 40 years. Since the early 1970’s, Avionic Instruments has earned a reputation for excellence in power conversion technology, and today its high-reliability, high-performance products and diversified portfolio are found on the world’s most sophisticated aircraft across multiple markets.

The Senior Electrical Engineer is responsible for designing and developing electrical circuits in support of new products and existing product upgrades in our power conversion product portfolio.  Responsibilities include but are not limited to:

**Key Responsibilities:**

* Review and take ownership of customer technical requirements.
* Develop a system architecture to satisfy the technical requirements within the constraints of budget, recurring cost, and schedule.
* Detailed design and analysis for new circuit or circuit variations including designing electronic circuits, PCB layouts, and magnetics.
* Design project specific test scenarios and test circuits for requirements compliance at sub-assembly and top-assembly levels.
* Able to evaluate and analyze existing circuits/designs for electrical performance.
* Generate sub-assembly and top-assembly acceptance test procedures (ATP).
* Conduct Failure Root Cause Analysis for Repair units.
* Provide source material and consult in developing qualification test plan and / or qualification test procedure (QTP) and Qualification Test report (QTR).
* Perform and formally record all testing required by test procedures (ATP and QTP).

**Qualifications:**

* Bachelor’s (required) or Master’s (preferred) degree in Electrical Engineering.
* Five+ years of electrical design experience.
* Knowledge of various power electronics circuits, topologies, and their control.
* Ability to understand, design, and simulate analog (required) and digital (desired) circuits.
* Knowledge of low frequency and/or high frequency magnetic designs.
* Expertise in one or more schematic capture software packages.
* Knowledge of circuit debugging tools such as oscilloscopes, meters, probes, etc.
* Ability to manage concurrent tasks on one or more active projects.
* US Citizen or US Permanent Resident.

**Authorities:**

1. Enforcement of company policies, procedures, and processes.
2. To compose Corrective and/or Preventive Action where applicable.
3. Authorized to report problems according to corporate procedures.
4. Has the authority to stop the manufacturing process if any unsafe conditions are present.
5. To enforce company Safety Requirements and Policies.

**Physical Demands:**

While performing the duties of this job, the employee is occasionally required to stand, walk, sit, use hands to finger, reach with arms and hands, climb stairs, stoop, kneel, crouch, talk or hear. The employee must occasionally lift and/or move up to 30 lbs.

**Work Environment:**

While performing the duties of this job, the employee is exposed to weather conditions prevalent at the time and an air-conditioned and heated office. The noise level is occasionally high.

**Disclaimer:**

The above information on this description has been designed to indicate the general nature and level of work performance by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities and qualifications required of employees assigned to this job.

Avionic Instruments is an Equal Opportunity Employer and encourages the application of female, minority, disabled and veteran candidates. Due to the potential for exposure to ITAR controlled data, the incumbent in this role must be a US Person (US Citizen or US Permanent Resident). Interested candidates should submit their resume and salary requirements.