

Job Title: Senior Electrical Engineer- EMI Filters
Location: Hackettstown, NJ

BASIC FUNCTION AND SCOPE OF JOB:

Astrodyne TDI is looking for hands-on individuals who enjoy rolling up their sleeves and working with a multidisciplinary team on the development of innovative products. Our Electrical Engineers design and develop power conversion, power control, and system communication products that are deployed in demanding environments ranging from industrial to military and aerospace. Our Principle Electrical Engineers become experts in the applications in which our power converters are deployed and partner with our customers to offer the best possible solution. Our Electrical Engineers are responsible for creating the customized end product that meets specified performance, cost and schedule targets.

WORK PERFORMED:

- Manage/develop customized high voltage power conversion products based on customer specifications –These products may be AC/DC Rectifiers, DC/DC Converters, DC/AC Inverters, system controllers, etc. - from conception to completion; this involves working closely with Program Management and other departments within an organization such as purchasing, sales, marketing and manufacturing to ensure the electrical product or equipment is completed in accordance to Astrodyne TDI's quality standards
- Lead the technical responsibilities of electrical engineering projects - this includes design, development, testing and manufacturing of electrical equipment or products.
- Generation of specifications for new R&D products
- Use analytical tools such as PSpice and MathCAD to conceptualize the design
- Preparation of schematic diagrams and BOM part lists
- Participation on Project Teams with Mechanical and Process Engineers
- Preparation of component stress documentation charts, MTBF, and DFMEA analyses
- Work with technicians or individually debugging and testing prototypes
- Develop Design Verification Test procedures and help with their execution and troubleshooting if issues arise.
- Communicate directly with customers, assuring design alignment with intended application and other goals.
- Participate in the development of junior member of the team by mentor them in the technology, best practices for DFM and work ethics.

OTHER RELEVANT EXPERIENCE/TRAINING:

High frequency magnetic component design
Knowledge on best design practices to comply with different EMC standards.
Experience troubleshooting EMC issues
Extensive knowledge of components utilized in switch-mode power supply design
Agency compliance (UL, CSA, VDE, CE) experience
Experience in designing products for testability and manufacturability
Experience designing high voltage power supplies.
Leadership skills to drive projects to happen on time

Qualifications:

A Bachelor's Degree in Electrical Engineering or related discipline required along with 5-10 years of experience with a minimum of three (3) years focused upon EMI.

Due to Military affiliations, we are unable to sponsor Visa. Must be US Citizen or Permanent Resident status only.

Astrodyne TDI provides equal employment opportunities to all employees and applicants. Our culture is one that provides opportunities for employee involvement, growth, and development. Astrodyne TDI offers competitive salary, paid time off, robust healthcare benefits, and 401(k).

To Apply: please email your resume and cover letter to Lindsay.Varnum@astrodynetdi.com