

Job Description - Electrical Engineer

SUMMARY OF POSITION

This position will play an integral role in new electronic module development, design processes, and quality/reliability implementation. Works closely with a cross-functional team to ensure electronics design is seamlessly integrated with LED modules targeted for luminaire systems. Responsible for appropriately securing Intellectual Property for Nichia while concurrently developing technical relationships with key suppliers.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Lead integration of electronics within Nichia's evolving module portfolio
- Create industry-leading, scalable electronic designs with flexible features at cost-appropriate levels
- Develop, grow, and sustain key technical partnerships with electronic assembly suppliers
- Oversight of both design-build and build-to-print relationships
- Integrate innovative electronic controls and communication into LED systems
- Participate in developing a robust module design process, including quality & reliability objectives

OTHER DUTIES AND RESPONSIBILITIES

- Assist in the execution of marketing plans of company as required.
- Support and participate in all Nichia initiatives
- Ability to visually detect subtle differences in color, detect different color hues and variance of white

QUALIFICATIONS

- 10+ years of experience
- Analog/digital hardware design of electronic assemblies, especially power supplies
- Experience in cross-functional teams developing new products
- Proficiency in developing specifications for engineering validation testing
- Proficiency with electronic design automation (EDA) tools for schematic and printed circuit design
- Experience with embedded control architecture including firmware design and validation
- Working knowledge of electronic regulatory standards, especially UL/CSA
- Familiarity with DFM (design for manufacturability) and DFSS (design for six sigma)

SUPERVISORY RESPONSIBILITY

Not a supervisory position

EDUCATION AND EXPERIENCE

- Bachelor's Degree in Electrical or Electronic Engineering from accredited institution
- 10 + years' experience
- Experience with AC-input circuit design, simulation, and testing
- Experience with electronic manufacturing processes
- Quality systems, reliability planning and analysis
- Design, development and manufacturing of microcontroller-based electronic products
- Experience with EMC and EMI compliance

PHSICAL DEMANDS AND WORK ENVORINMENT

Physical Demands: Position incumbents performing this job's essential duties and responsibilities typically exhibit the following physical demands. These physical demands are not and should not be construed to be job qualification standards, but are illustrated to help the employer, employee and/or applicant identify tasks where reasonable accommodations may need to be made when an otherwise qualified person is unable to perform the job's essential duties because of an ADA disability.

While performing duties of this job, the employee may occasionally have to travel by flying or driving to customer sites.

May, on a continuous basis, sit at desk for a long period of time; frequently answer telephone and write or use a keyboard to communicate through written means. Some walking and lifting to 20 lbs. may be required.

Work Environment: Work is usually performed in an office or lab environment. Noise level is usually moderate to quiet. Typical travel conditions include extended time in both cars and planes.

This job description does not constitute an employment contract, nor does it restrict management's right to assign or reassign duties and responsibilities to this job at any time.