

Techshot, Inc.

Position Description

Position: Electrical Engineer
Reports To: Electrical Engineering Department Manager
Education Requirement: Bachelor's degree (B.S.) from four-year college or university in electrical engineering and a minimum of five (5) years related experience.

DESIRED ATTRIBUTES:

- Self-starter
- Self-disciplined
- Good organizer and planner
- Highly motivated, enthusiastic, creative and independent

SUMMARY: The Electrical Engineer's general purpose is to design, develop, analyze, and/or test electrical components, equipment, and systems.

ESSENTIAL DUTIES AND RESPONSIBILITIES include, but not limited to, the following. Other duties may be assigned.

- Ability to design VAC and VDC analog circuits, up to 250V. Knowledge of power supply architecture and LED driver circuits. Designs may include sensors and components connected by ADC and DAC circuitry.
- Ability to design digital circuits with microcontrollers and high-speed communication. This may include protocols such as I2C, CAN, RS-232, RS-422, USB and Ethernet.
- Ability to design electromechanical systems that may include step motors, DC motors, miniature solenoids, miniature pumps, feedback sensors and switches. Knowledge of control system principles and feedback loops.
- Ability to design electronics for high-reliability and EMI sensitive environments. Knowledge of EMI/EMC/ESD standards and testing.
- Design of electrical equipment, facilities, circuit boards, components, products and systems for commercial, industrial, or governmental projects.
- Responsible for producing accurate documentation such as electrical schematics and appropriate analysis of designs. This includes identification of applicable standards and instructions.
- Identifies parts for a design to meet project specifications. This may include the selection of NASA or DoD preferred parts.
- Confer with customer to clarify or resolve problems and develop project designs.
- Implementation of all applicable quality procedures. This may include the development of needed work instructions or procedures.
- Compile information and documentation for design reviews, verifications, and presentations.
- Conduct applicable reviews, meetings, and technical presentations.
- Directs and coordinates manufacturing or building of circuit boards and final product.
- Prepare and/or assist with project reports, monthly status reports, teleconferences, and all written/oral communications with, and required by, the customer.
- Develops and analyzes operational, test, and research data to establish performance specifications for newly designed products.
- Works on project team (internal engineers and scientists) to develop electrical designs (systems, sub-systems, and components) for projects.
- Directs supporting personnel as required to complete electrical design tasks (i.e. technicians).
- Assist with business development activities by preparing quotes, estimates, and proposals.

To apply, please email your résumé to: careers@Techshot.com