

Position: Electronic Hardware Design Engineer (Cincinnati, OH)

Description: The Electronic Hardware Design Engineer creates, develops, and tests electronic hardware solutions to meet customer needs and requirements.

Company Description: Performance Electronics, Ltd (PE) is an engineering company specializing in the design and manufacture of embedded electronic control systems for our business-to-business customers representing various industries. PE has extensive experience in all aspects of control system design, integration, testing, production, and life-cycle management.

Job Expectations & Requirements:

- Bachelor's degree in Electrical Engineering with a focus on hardware circuit design.
- Minimum 2 years experience, 5 years preferred, in designing hardware and Printed Circuit Boards (PCBs). Experience with power electronics and embedded control systems preferred.
- Experience in Altium required, with Mentor Graphics PADS and DxDesigner experience a plus.
- Strong experience with hardware design and development with a focus on design for manufacturability (DFM).
- Strong understanding of electronic design as part of new product development.
- High level of knowledge of electronic design analysis, simulation, and verification methods such as SPICE.
- Experience writing Verilog for FPGAs, preferred.
- Self-starter with strong organizational skills and ability to work independently and on multiple projects at once.
- Strong interpersonal skills and ability to work well within a team environment.
- **PE will not sponsor applicants for work visas.**

Job Duties:

- Design analog and digital circuits, evaluate component selection, schematic capture and layout, and maintain electronic component library.
- Optimize designs for reliability, manufacturability, quality, and cost.
- Work as a member of the New Product Development Team, along with Application and Software Engineers, to help ensure designs meet customer/system requirements.
- Create test plans and develop test protocols for products or components, with a focus on reliability and detecting failure mechanisms.
- Develop detailed performance and testing specifications for parts/assemblies and execute verification test procedures.
- Troubleshoot and test electronics using oscilloscopes, function generators, and electronic lab equipment.
- Create documentation for the fabrication of PCBs and related electronics, including component drawings, assembly drawings, fabrication drawings, and bill of materials.
- Support Quality Department activities to determine root cause analysis of customer returned units.
- Work with component vendors and PCB contract manufacturers to source components and assemblies.

Compensation & Benefits:

Salary: \$80,000.00 - \$100,000.00 per year, commensurate with experience, with possibility of annual performance bonus.

Benefits: 401(k) with match, medical and dental insurance, life insurance and long-term disability, paid time off, flexible schedule, casual work environment.

How to Apply: Email your resume and cover letter to: HR@pe-ltd.com.