

Job Description

Title: Electrical Design Engineer

Cost Ctr: 705-000

Work Location: Addison, TX

Position Status: ☒ Full-time ☐ Part-time

Division & Department: Hardware Engineering

Position Reports to: Director, Hardware

Position Overview and Definition:

The Electrical Engineer will be responsible for the specification, design, fabrication and test of authentication devices. Ideal candidates will have a diverse range of hardware design experience; 50% digital design, schematic capture (OrCAD), 50% analog circuit design, and one who can work within timelines. FPGA design experience is a plus.

Functional Description:

- Specify, design, implement and test digital, electro-optical, and analog systems. These systems are low power, battery operated, electro-optical instruments that authenticate products.
- Work closely with other hardware and software team members to specify, architect and refine designs.

Candidate Competencies:

- HW specification/architecture definition experience.
- Digital and Analog circuit design skills.
- Excellent technical problem-solving skills.
- Excellent written and verbal communication skills.
- Experience with electrical CAD software required. ORCAD software preferred.
- Proficiency in Microsoft Office applications
- Ability to work independently in a fast-paced, multi-tasking, small company environment

Education and Experience:

- Bachelor of Science in Electrical Engineering required
- Minimum of 8 years of experience in product design and development

Additional Factors Resulting in Added Consideration:

- Experience in the following areas:
 - Precision optical instrumentation
 - Electro-optical systems
 - Hand-held and battery-operated devices
 - Switching power supplies
 - Embedded processors
 - Lasers and high-power LEDs drives
 - FPGA design experience
- Statistical analysis
- Having experience writing code for an embedded processor is a plus