

Hardware / PCB Design Engineer (Mid & Senior Levels)**Riptronix LLC** | Linthicum Heights, MD (Onsite)**Security Clearance:** Active TS/SCI with Full-Scope Polygraph (Required)

Riptronix is seeking a self-starting team player to design and debug high-end cryptographic products. As a Hardware / PCB Design Engineer, you will own the design lifecycle for NSA Type 1 security products, working from initial architecture through 16+ layer HDI layout to final lab integration.

Core Qualifications

- **EDA Expertise:** Proficiency in Cadence Allegro/OrCAD.
- **High-Speed Design:** Experience with LVDS and HSS (up to 10 Gbps).
- **Complexity:** Expert knowledge of up to 16+ layer HDI designs and IPC Class 3 standards.
- **Full Lifecycle Ownership:** From part selection and schematic capture to vendor management and test/integration.
- **Documentation:** Ability to produce high-quality technical documentation for new designs.

Highly Desirable Experience

- **NSA Type 1 Products:** Exposure to IA security practices, verification testing, and certification.
- **Secure Design:** Familiarity with TEMPEST and RED/BLACK isolation.
- **Embedded Tools:** FPGA design (Xilinx Vivado), Python scripting, or GitLab.

Benefits & Culture

We offer a premier benefits package designed for long-term partnership:

- **Unrivaled 401K:** 6% employer contribution plus 9% profit sharing.
- **Work-Life Balance:** 25 days PTO, 11 federal holidays, and a flexible comp time policy.
- **Health:** 100% employer-paid medical, dental, and vision insurance.

Education/Experience:

Mid-Career: Seven (7) years of experience as a hardware design engineer with a Bachelor's degree in Electrical Engineering or Computer Engineering from an accredited college or university or twelve (12) years of experience without a degree.

Senior: Twelve (12) years of experience as hardware design engineer with a Bachelor's degree in Electrical Engineering or Computer Engineering from an accredited college or university or seventeen (17) years of experience without a degree.

About Us:

Riptronix LLC is a locally owned small business that specializes in delivering high-end engineering products and services to our customers. Our employees have a wide variety of engineering skills and talents in hardware, software and system engineering to solve the most challenging technical problems facing our customers. Our employees are detail-oriented, customer-focused, and enjoy working in a dynamic and productive team environment.

At Riptronix we want you to join the company for a mutually beneficial long-term employment relationship. We are looking for talented employees who appreciate opportunities to learn new things and to contribute their talents on multiple projects. We work closely with our customers to produce timely and often incremental solutions for many of our projects.

*Riptronix offers a great work environment/culture with excellent compensation and benefits for our employees. **Our benefits include employer paid medical, dental and vision insurance, 25 days of paid time off, 11 federal holidays, excellent 401K (6% employer contribution and 9% profit sharing), and flexible work schedule and comp time policy.***

Riptronix is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or protected Veteran status.