



Acadia Optronics LLC
1395 Piccard Drive
Suite 210
Rockville, Maryland 20850

Hardware Engineer

Location	Acadia Optronics LLC, Rockville, MD
Position Type	Full-time employee

GENERAL DESCRIPTION

Participates in the design, development, and testing of next-generation 10 Gb/s FPGA-based networking hardware. Completes FPGA development using Verilog and VHDL with extensive code documentation, produces test/verification simulations using ModelSim, and interacts with software team for integration and testing of device drivers and network protocols. May also be asked to develop FPGA modules for security, storage, and video applications. Works in a small, entrepreneurial team environment with other hardware and software engineers. Presents results to management and customers. For more information, see www.acadiaoptronics.com.

WORK EXPERIENCE

Required:

- Two years experience in FPGA development with Verilog or VHDL.
- Demonstrated ability to deliver FPGA code towards a successful mid- to large-scale FPGA project, with interaction from multiple software and hardware developers.
- Familiar with test equipment (e.g. Logic Analyzers, Oscilloscopes) and writing test/verification suites (e.g. Verilog/VHDL testbenches).
- Self-motivated, willing to take initiative and learn on the job; aspires to a larger role within the organization.
- Strong written and oral communication skills for team interaction and technical reporting.

Desired:

- Three to five years experience in FPGA development with Verilog or VHDL for high-performance applications, especially in hardware related to networking and/or communications.
- Prior experience with Xilinx ISE and Modelsim.
- Experience with communication/networking protocols (e.g. IP, TCP, UDP, FTP, HTTP)
- Development for workstation environments (especially Linux) and/or embedded systems.
- Previous experience with authoring proposals and other technical writing.

EDUCATION

Required:

- Bachelor's degree in Electrical Engineering or Computer Engineering.

Desired:

- Master's degree in Electrical Engineering, Computer Engineering, or similar field (e.g. Telecommunications).