



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

## Software Engineer

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

### GENERAL DESCRIPTION

Participates in the design, development, and testing of software supporting 10 Gb/s FPGA-based hardware. Completes device driver development for Linux and Windows with extensive code documentation, produces test/verification/demonstration client-application software, and interacts with the hardware team for integration and testing of device drivers and network protocols. Works within and expands the Linux networking stack to enable hardware to interface with the kernel and third-party client applications. May also develop embedded software for CPUs residing on network interfaces. 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](http://www.acadiaoptronics.com).

### WORK EXPERIENCE

#### Required:

- Two years experience in software development, with a thorough understanding of the code development and management process for prototypes and commercial products.
- Successful completion of complex software development projects in C or C++ which require integration of proprietary and COTS hardware and software.
- Experience working in a Linux environment, developing device drivers and scripts, and installing/managing third-party applications.
- 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 software development in a networking-related field with experience using communication/networking protocols (e.g. IP, TCP, UDP, FTP, HTTP).
- Experience working in a Windows environment, writing device drivers, and developing applications.
- Embedded development experience.
- Knowledge of key issues within the networking, security, storage, and/or video fields.
- Previous experience with authoring proposals and other technical writing.

### EDUCATION

#### Required:

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

#### Desired:

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