

Objective: To obtain a challenging position in the field of Optical Engineering, with an emphasis on new and innovative technology, that provides an opportunity to learn as well as contribute to the organization's growth.

Education: **Bachelor of Science, Optical Engineering, May 2007**
Rose-Hulman Institute of Technology, Terre Haute, IN
Minor: Electrical Engineering
Minor: Language and Literature
Certificate: Semiconductor Materials and Devices
Overall: 3.14/4.00 G.P.A. Major: 3.67/4.00 G.P.A

Relevant Coursework: Optical Metrology, Lens Design and Applications, Fiber Optics and Applications, Laser Systems and Applications, Paraxial Optics, Circuits and Systems, Signals and Systems, Discrete Time and Continuous Systems, Semiconductor Materials and Devices, Electric and Magnetic Fields, Introduction to Logic Design, Electronic Device Modeling

Other Qualifications:

- Proficient in Microsoft Office, Maple, Minitab, MATLAB, LabVIEW, Code V, Xilinx, PSPICE
- Experience working with Optical Spectrum Analyzers, Optical Power Meters, various laser sources
- Outstanding leadership and teamwork abilities

Professional Experience:

Research Associate Summer 2006
Crane Naval Base Research Grant
Member of research team funded to develop a beam profiler system to be used for long range beam characterization

- Designed, developed, and constructed several PCB's
- Designed and implemented a LabVIEW program that interfaced with beam profiler hardware as well as performed data analysis
- Generated weekly reports and presentations on project progress
- Built mechanical prototype

Research Associate Summer 2005
Rose-Hulman Institute of Technology Physics Department

- Conducted research on current laser technologies and applications for Naval use
- Performed diagnostic and repair work on high power solid state laser systems
- Performed laser alignment for a Nd-YAG laser

Honors/ Activities

- Dean's List 4 quarters (3.3 GPA or higher)
- Triangle Fraternity (2004-2007), Active Alumni Representative (2005), Membership Development Committee Rep. (2006)
- RHIT Lacrosse Club (2004-2007), President (2004-2006)
- Member of SPIE