

Summary

- **Optical Engineer (5+ years)**
- SSBI/SCI can be reactivated through 2012
- Trained Lean Six Sigma Green Belt
- Proficient in use of Leica[®] laser trackers and T5100A theodolite
- Computer Competencies: SpatialAnalyzer, LabVIEW, Microsoft Excel, Word, and PowerPoint
- Additional Computer Experience: ZEMAX, MathType
- Property Control Representative trained in SAP
- Ability to edit and write technical documents and procedures for clarity, grammar and syntax
- M. S. Physics (Applied Optics), San José State University, May 2004

Professional Experience

LOCKHEED MARTIN SPACE SYSTEMS, Sunnyvale, CA & Denver, CO 2005-2010

Optical Engineer

- Constructed, analyzed, aligned, troubleshoot, and wrote procedures for testbed to characterize and validate the polarization characteristics of optical coatings
- Wrote and debugged LabVIEW modules (VIs) for motion control, data logging, and data analysis
- Assisted in the precision alignment of equipment using Leica[®] laser trackers and SpatialAnalyzer software for metrology
- Selected vendors for optical equipment, optical components, and opto-mechanical components
- Mastered use of Leica[®] T5100A theodolite to align optical and mechanical components in an optical set-up
- Completed organization of large optics lab in Sunnyvale to 6S Standards
- Improved outfitting and storage of optical and opto-mechanical equipment in five optics labs in Denver to 6S standards

DEPARTMENT OF PHYSICS, San José State University, San José, CA 1997-1998, 2002

Optics Laboratory Instructor and Technical Writer

- Instructed students in procedures for handling, cleaning, & aligning optical components and for gathering and analyzing experimental data
- Rewrote laboratory manual, including writing new material and editing for clarity, content, grammar, syntax, and layout

GENERAL DYNAMICS ELECTRONIC SYSTEMS, Mountain View, CA 1981-1982

Assistant Director, Material and Components Laboratory (Failure Analysis Lab)

- Performed lab tests as necessary for failure analysis investigations
- Organized daily workload of technicians
- Interfaced with other departments to resolve problems
- Administered and expanded manufacturer certification to mil-spec for printed circuit boards
- Assisted in performance of failure analysis investigations
- Wrote failure analysis and procedure audit reports

Education

Master's Degree, 2004

Department of Physics
San José State University, San José, CA
G. P. A.: 3.6/4.0

Bachelor of Science Degree, 1981

Department of Physics
SUNY at Stony Brook, Stony Brook, NY
G. P. A.: 3.1

Additional Professional Training

- **Techniques for Effective Technical Writing**, 2010
- **LabVIEW Basics I and II**, 2009
- **Basic Atomic Force Microscopy**, Pacific Nanotechnology, Two-Day Course, 2006
- **Optical Imaging and Aberrations**, Short Course, 2005
- **Optical Thin-Film Coating Technology**, University of Rochester, 5-Day Course, 2005
- **Introduction to Optical Alignment Techniques**, SPIE Short Course, 2005
- **Thin Film Optical Coatings**, SPIE Short Course, 2005

Professional Affiliations

IEEE Photonics Society
SPIE (The International Society for Optical Engineering)
Sigma Pi Sigma (National Physics Honor Society)