

Christopher Guido
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OBJECTIVES

Seeking full time employment in the fields of Optical System Design, Optical Fabrication, or Opto-Mechanics

EDUCATION

University of Arizona

Degree: Bachelor of Science

Cumulative G.P.A: 3.294

Major: Optical Sciences and Engineering (Opto-Mechanics Track)

Graduation: Pending May 2009

Minor: Math

WORK HISTORY

Optical and Mechanical Assistant, Optical Fabrication and Engineering Facility (Located in the Optical Sciences Center at the University of Arizona), 2006 to present

RELEVANT SKILLS & EXPERIENCE

- Familiar with programs such as Code V, Abaqus, Ansys, Matlab, Multisim, Solidworks, and MS Office products
- Familiar with optical testing equipment such as Interferometers, Spatial Filters, Monochromators, Spherometers, Alignment Telescopes, etc.
- Some optical fabrication experience such as generating, grinding, polishing and testing
- Some machine shop experience

Relevant Classes Taken

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| – Geometrical & Instrumental Optics I and II | – Electronics for Optical Engineers and Scientists |
| – Geometrical & Instrumental Optics Laboratory I and II | – Radiometry, Sources, and Detectors |
| – Mechanical Design in Optical Engineering I [Statics] and II [Mechanics of Materials] | – Optical Fabrication and Testing |
| – Matlab programming | – Opto-Mechanical Design |
| – Physical Optics I and II | – Advanced Optics Laboratory I |
| – Lasers and Photonics | – Opto-Mechanical Engineering Laboratory I |
| – Intermediate Optics Laboratory I and II | – Dynamics |
| – Optical Design | – Finite Element Methods and Analysis |

Currently Enrolled

- Optical Communication
- Advanced Optics Laboratory II
- Opto-Mechanical Engineering Laboratory II
- Introduction to CAD
- Engineering Capstone (Interdisciplinary Engineering Design Program)

PROJECTS

- Discovery Channel Telescope Primary Mirror (Optical Fabrication and Engineering Facility)
I have participated in the mechanical assembly of the hydraulic whiffle tree support of the mirror as well as the machining of several parts used on the project.
- High Resolution 3D LiDAR Inspection System (Lockheed Martin Corporation)
My tasks on the project include optical design, optical analysis, and mechanical analysis for the range finding subsystem.
- Video Readout Eyepiece for Alignment Telescope
I will be designing, building, and testing a video readout system to replace an eyepiece in an alignment telescope with commercially available parts.