Matthew WOODRUFF

Student of Optics and Computer Science.
I seek success through industry, improvement, and innovation.
This mantra has held true in my career and personal life; from
drafting data management policies for the state department to
methodically crafting my pet sourdough starter 'Albert.'

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Education

BS in Photonic Science and Engineering GPA 3.316	The College of Optics and Photonics Orlando FL, University of Central Florida	December 2021
Transfer Credits GPA 3.700	Reno NV, Truckee Mountain Community College	July 2018
Transfer Credits GPA 3.923	Carson City NV, Western Nevada Community College	May 2018

Work Experience

Teaching Assistant	University of Central Florida	08/21 - 12/21

- Aid students in developing expertise in optical labs and a working knowledge of the functions therein.　US-Florida
- Write and implement quizzes in lab informational videos.

Store auditor	Information Systems and Networks Corporation	07/19 - 08/20

- Audit commercial sites for compliance with the USDA SNAP program.　US-Florida
- Professional photography, handling of legal documents.
- Achieved "Reviewer 1" status, earning a raise and reduced oversight.

Sales Associate	Lowe's	02/18 - 08/18

- Assist customers, verify inventory status, and maintain store safety.　US-Nevada
- Operate heavy machinery, use specialized equipment to cut materials.
- Retained a clean heavy machinery license despite frequent use.

Policy Division Associate	International Narcotics and Law	06/17 - 09/17

- Process policy documents, organize a department-wide network drive.　Colombia-Bogota
- Creation of digital utility scripts, administration of department newsletter.
- Awarded letter of recommendation from the INL director.

Sales Associate	The Home Depot	03/16 - 12/16

- Assist customers and maintain store conditions.　US-Virginia
- Safe and efficient operation of heavy machinery.
- Retained a clean heavy machinery license despite frequent use.

Skills

Optics	Courses	Geometric Optics, Analytical Methods of Optics, Foundations of Photonics, Fiber-Optics Communications, Imaging and Display.
	Equipment	CMOS cameras, power meters, spectrometers, interferometers.
Programming	Courses	Intro to C, Engineering Analysis and Computation, Imaging and Display, Object Oriented Programming.
	Languages	MATLAB, Java, C, PowerShell, HTML5.
Electronics	Courses	Semiconductor Devices, Linear Circuits 1-2, Electronics 1. Electromagnetic Fields.
	Design	Multisim/Multisim Live, freehand.
	Equipment	Oscilloscopes, multimeters, signal generators, standard breadboard components, computer components.
Statistics	Courses	Probability and Statistics for Engineers, Statistical Methods 1, Engineering Analysis and Computation.
	Programs	Excel, Calc.
CAD	Programs	FreeCAD.

Senior Design

FLASC (Fast Liquid Analysis and Sanitization Container)

Roles	
Water Quality Analyzer	Designed and implemented the optical and part of the electrical and programming aspects for the FLASC's analyzer, which successfully detected 4 ppm fluoride in an aqueous solution.
Device Housing	Designed the device's five-layer, 3D printed housing.
Website	Programmed the project's website in HTML5.