

OPTICS 101

EDUCATION

Master's in Applied Physics: Optical Materials and Devices
University of Oregon; Eugene, OR

Expected July 2018

Bachelor of Arts in Physics, minor in Mathematics
Portland State University; Portland, OR

September 2015

Bachelor of Arts in Radio, Television, and Film
University of North Texas; Denton, TX

December 2006

ACADEMIC EXPERIENCE

Portland State University; Portland, OR

February 2015 to September 2015

Volunteer Lab Assistant

Volunteered to assist a PhD student by fabricating near field probes using 0.3 mm diameter quartz capillaries which provided them with 50% more probes which were for future use in their Near-field Scanning Optical Microscopy experiment

- Identified issue with sputter coating system forming a consistent layer and co-initiated the construction of a new system
- Constructed thermal evaporation system by identifying spare parts from departmental labs, tested high current power supply and troubleshoot issues with vacuum chamber.
- Collaborated with team members on defining roles and responsibilities for the design of a new sputter coating system. Led early planning stages of the louvre timing via a stepper-motor and viewing window design.
- Determined the micro- and macroscale integrity of coating by SEM and He-Ne laser inspection and recommended for next steps or disposal
- Assembled feedback loop sensors by mounting capillaries to tuning forks which required the use of a microscope and tweezer set up which sharpened dexterity and patience

Portland State University; Portland OR

September 2013 to June 2014

Peer Mentor Workshop Leader

- Tutored major and non-major students in weekly General Physics (Calculus based) workshops
- Developed students' Physics and Math skills during problem sets and discussions on topic of the week
- Actively participated in weekly meetings with fellow workshop leaders and faculty supervisor to ensure the quality of the workshops by discussing any issues regarding that week's topic or any past issues

WORK EXPERIENCE

Micro Systems Engineering, Inc.; Lake Oswego, OR

October 2015 to June 2017

Quality Assurance at Receiving Inspection (QARI) Specialist II

- Utilized automated linear rail test system (Huntron) to electrically test 7000 power and pulse transformers per week; analyzed resultant electrical data and compared with vendor provided test data
- Wrote numerous non-conformance reports (NCR)/quality notifications that were discussed at daily QARI and Material Review Board meetings
- Participated and led daily test development engineer meeting, 5-6 people, in which equipment status/anomalous components were discussed with the goal of identifying and resolving any issues that would disrupt production
- Troubleshoot, developed, and executed plans for malfunctioning equipment; communicated findings to test development engineers. Issues included: optimizing vision system, redefining x-y zero points to compensate mechanical drift, replacement of test fixture relays, investigated socket/fixture for arcing issues
- Contributed to software development project by completing validation testing of numerous modules, including departmental and non-departmental software functionality; prior to launch of software, wrote a 20 page software training document that was released for departmental use and conducted the training of this document.

Pizzicato; Portland, OR

April 2012 to October 2015

Front of House/Salad Line/Food Prep/Pizza Line/Delivery

- Oversaw *front of house* by multitasking several priorities including taking phone orders, organizing and prioritizing deliveries, helped customers in store, running food orders, maintaining cleanliness standards, accurate handling of various types of tender
- Prepared raw ingredients to recipe specifications for in restaurant product
- Trained new staff on all areas of restaurant operations as requested by management
- Fully cross trained on all aspects of restaurant including food preparation, pizza line, salad line, front of house, and deliveries

Prior experience included working in 3 customer interfacing roles as well as a managerial role from 2006-2012.