

# Semi 212

## Education

### University of Oregon

June 2017 - Present

#### Master of Science, Applied Physics: Semiconductor and Photovoltaic Processing

Eugene, OR

- Expected Graduation Date: August 2018

### Pacific University

May 2016

#### Bachelor of Science, Physics

Forest Grove, OR

- Minor in **Mathematics**
- Honors: Magna Cum Laude

## Related Experience

### Intel

June 2016 - June 2017

#### Manufacturing Technician

Hillsboro, OR

- Oversaw operations for Kaby Lake and Cannon Lake processes in Thin Films module
- Ensured efficient production through troubleshooting and diagnosing equipment issues on 16 different Endura 5500 tools
- Enhanced team productivity by coordinating and scheduling team responsibilities and duties as required by engineers and manager
- Improved team capacity and efficiency by quickly training new team member into contributing role and creating schedule and process for cross-training of 5 teammates
- Maintained team's test wafer inventory as Test Wafer Manager through daily stock monitoring, wafer requests, and wafer shipments
- Maximized tool production by utilizing multitasking skills in order to maintain upkeep of 16 different tools, complete work orders from managers and engineers, communicate between 9 teammates, and prioritize responsibilities

### Pacific University

May 2015 - August 2015

#### Research Assistant to Dr. Andrew Dawes, Quantum State Tomography and Stored Light Memory Cells

Forest Grove, OR

- Developed method for characterization of slowed light modes via FFT, proven by measuring quantum level of 1-2 photons per mode while reaching inherent quantum uncertainties and modes for known double-slit interference pattern
- Improved experiment reproducibility through creating an automated beam shutter device by designing PCB with KiCAD software
- Increased data collection speed by creating necessary Python code for complete experiment automation
- Chosen as 1 of 2 students out of an undergraduate cohort of 60 students to present research at Murdock Undergraduate Research Conference in front of audience of 200+ students and professors from 6 universities

### Pacific University

January 2014 - December 2015

#### Teaching Assistant, Modern Physics and Health Applications

Forest Grove, OR

- Motivated students by encouraging and developing critical thinking in Workshop Physics
- Ensured appropriate lab space by troubleshooting and modifying Modern Physics labs as necessary
- Improved student learning and strengthened personal time management by grading homework in timely manner
- Enhanced Workshop Physics pedagogy by working with professors to develop new teaching technique for demonstrating conservation of angular momentum

### Pacific University

May 2013 - August 2013

#### Research Assistant to Dr. Stephen Hall, Anomalous Crystal Growth in Super-Cooled Liquids

Forest Grove, OR

- Confirmed anomalous crystal growth in super-cooled Triphenyl Phosphate (TPP)
- Developed more efficient and reproducible method for measuring crystal growth by automating video recording through utilization of LabView
- Chosen as 1 of 3 students out of an undergraduate cohort of 64 students to present research at Murdock Undergraduate Research Conference in front of audience of students and professors from 7 universities
- Shared research progress by developing weekly verbal presentations for entire undergraduate research cohort

## Additional Skills

Proficient in C++, Python, and Linux