
EDUCATION*University of Oregon**June 2017-August 2018 (Anticipated)*

- Master of Science in Applied Physics
- Concentration in optical devices and materials

*Carthage College**September 2013-May 2017*

- Bachelor of Arts
- Major: Physics
- Minor: Mathematics
- Concentration: Pre-Engineering

RESEARCH EXPERIENCE*Senior Thesis Project**September 2016-May 2017*

- Developed sizable model consisting of 30 power sources and 100 power sinks in Python through the process of taking an actual power grid and simplifying it down to a feasible model in order to run analyses on the model.
- Modeled power grid and attenuated blackouts in power grid by 25% through writing several python scripts and rigorous data and graphical analysis.
- Overcame unexpected setbacks in python code by researching new syntax, troubleshooting problems with code, and enacting problem-solving skills.
- Extracted meaningful results and conclusions from multiple graphs and values gathered from python code by using graphical and data analysis skills.
- Improved time management skills through setting strict deadlines while also working closely with mentor/professor in order to ensure validity of project and results.

WORK EXPERIENCE*Panera Bread LLC. Associate Trainer**June 2011-June 2017*

- Promoted to Associate trainer in half the typical time by surpassing expectations and exercising leadership skills and attention to detail.
- Ensured excellent service of 300-400 customers per shift by quickly operating a cash register, assembling food to specifications, accurately taking orders from customers, and assembling all parts of order accurately to provide a positive customer experience.
- Improved personal and professional communication skills by continual interaction with ~25 coworkers and ~400 customers per day.
- Guaranteed ability for ~20 new associates to excel in eight different positions by providing rigorous training in accordance to standard proficiency goals.
- Controlled quality of raw product based on expiration date and quality of product through comprehensive regimen of proper rotation of stock.

*Velocity Consulting**October 2014-April 2015*

- Established new customer base for Velocity Consulting by spearheading physics and data-analysis based project provided by Expanded Technologies to Velocity Consulting.
- Developed professional communication skills by presenting procedures and findings to CEO, President, and Consultant of Expanded Technologies.
- Held numerous vital responsibilities such as constructing a team, enforcing strict schedule, acting as contact point for CEO of Expanded Technologies, delegating responsibilities to team, overseeing all team decisions, and finalizing deliverable and presentation by practicing communication and time management skills.
- Concluded that Floor-Savers™ reduced noise of sliding chair by 16% on hardwood, and 3% on vinyl flooring by conducting numerous extensive trials and analyzing findings.

VOLUNTEER WORK*Mentor at EBSOLA Elementary School**September 2016-May 2017*

- Acted as strong adult male figure in the lives of 3rd graders every week by assisting them with their homework, acting as a positive male role for them, and helping facilitate an active and healthy lifestyle.

SKILLS*Software*

- Python(Intermediate), MatLab(Novice), Mathematica(Novice), C++(Novice), OpticStudio(Novice)

Misc.

- Power tools (angle grinder, table saw, etc.), tractors with variety of implements, engine/motor/equipment maintenance and troubleshooting, welding, soldering, wiring.