

EDUCATION

University of Oregon, Eugene, OR

Masters in Applied Physics with a focus in Optical Materials and Devices

Expected Graduation date: June 2018

Oregon Institute of Technology, Klamath Falls, OR

Bachelor of Science in Electrical Engineering, Minors in Applied Mathematics & Applied Physics

Graduation date: June 2017

SKILLS & QUALIFICATIONS

Software (OpticStudio, LT Spice, SAM, Photoshop, MATLAB, Mathematica)

Circuit construction and analysis, Standard circuit testing equipment

PROJECTS

GO Possibilities, Klamath Falls, OR

Co-Founder, 2016–present

- Developed a more environmentally friendly and less time intensive process for the exfoliation and oxidation of graphite for the production of graphene
- Designed a printer to extrude and cure custom graphene circuitry and electronics per customer's specifications for which GO Possibilities was awarded first place in an entrepreneurial competition
- Collaborated with three other engineering students to inform and network with professors and community stakeholders to ensure product integrity and economic support
- Researched necessary equipment and products, and administered the procurement for most efficient funding allocation of \$7,500 to establish a lab space for conducting chemical experimentation and testing

Senior Project, Oregon Institute of Technology

September 2016 – June 2017

- Developed a more cost effective and environmentally friendly method of graphene production and reduction for the use as a thermoacoustic loudspeaker
 - Modified existing process found in literature and adapted it for available resources
 - Secured funding of \$1,300 by submitting a comprehensive proposal detailing design and research
 - Independently researched, designed and constructed project, proposal, and final report
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INTERNSHIP EXPERIENCE

Columbia River PUD, Deer Island, OR

Intern, summer and winter 2014

- Modified schematic and wiring diagrams for a new substation by utilizing old substation diagrams and corrected errors in AutoCAD
 - Investigated best viable options for LED roadway conversions by combining information attained from multiple sources and presented in a format easily understood by City Council members
 - Reviewed and compared new power loadings on existing transformers to determine if upgrades were necessary
 - Calibrated and upgraded substation security system to increase efficiency and reduce false alarms
 - Aided and supported Field Engineers on various projects
 - Cataloged inventory of hundreds of items and developed an easily navigable document detailing material limitation and purchasing information
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RECENT WORK EXPERIENCE

The Edge, Student Newspaper, Klamath Falls, OR

Communications Manager, 2014–2017

- Improved employee retention by facilitating team meetings, encouraging input from team members, and coordinating team building events

- Performed other managerial duties such as acting as photographer, graphic designer and business manager to ensure highest quality production from company
- Implemented social media, advertisement and promotional strategies by reinventing social media presence, designing and ordering of hundreds of promotional items, and representing organization at campus activities

Superior Tire Service, Longview, WA

Commercial Tire Technician, June–September 2015

- Independently assisted customers with roadside emergencies by improvising solutions with materials on hand under high stress
- Assisted management personnel to record inventory counts of thousands of commercial tires over the last 2 days of each month
- Worked as a team to perform tire replacements and repairs on commercial vehicles with speed and precision

Sunshine Catering, St. Helens, OR

Caterer, 2009-2015

- Coordinated with clients to ensure satisfaction of catering services while maintaining health department standards of food safety when transporting and setting up catered event
- Catered to individual tastes of customers while maintaining a clean workspace to minimize food allergy reactions
- Operated industrial meat slicers, dough rollers, dual conveyor ovens, and gas stoves

Sports Authority, Klamath Falls, OR

Sales Authority, 2013-2014

- Trained employees on company standards, expectations and aided in the development of salesmanship
- Built on customer base through quality customer service and superior product knowledge by studying inventory diligently to be better prepared for potential questions from diverse populations
- Received, managed and marketed inventory in a visually appealing manner

AWARDS

Catalyze Klamath Competition (Entrepreneurial competition) - \$7,000

Oregon Best Clean Tech bonus - \$500

- Presented proposed comprehensive business plan to panel of judges for which we won first place
- Oregon Institute of Technology Resource Budget Commission (senior project funding award) - \$1,300
- Proposed project of reduced graphene oxide aerogel for the use as a thermoacoustic loudspeaker