

Education

University of Oregon June 2017-September 2018
 Master of Science-Industrial Internship Program with focus in Polymer Chemistry
 Youngstown State University August 2013-May 2017
 Bachelor of Engineering-Chemical Engineering with minor in Chemistry & Math, *cum laude*

Research Experience

Senior Design Project, YSU January-April 2017

Scale up of production facility that manufactured 3-D printed femoral hip bones from stem cells

- Delegated project tasks and kept team on schedule by planning and detailing using Microsoft Project. Also used it to create Gantt charts to scale up lab procedures and identify predecessors for efficient design.
- Coordinated with biology department to cross train for sterile environment hood procedures, grow out osteoblast stem cells, and print them. Turned data from cell growth into mathematical model to scale up procedure.
- Strong attention to detail aided in calculating energy and resource consumption costs, labor, environmental, and waste costs, realistic equipment design, and preemptive problem solving, all incorporated into the final design.
- Used CapCost and current market research to determine project was a successful design based on grass roots cost of plant, which was profitable in year three, 10 year ROI was 143%.

Work Experience

Lowe's March 2014-June 2017

Customer Service Associate

- Focused on being friendly and professional when assisting customers, while preventing merchandise losses. Received multiple loss prevention awards and received several quarterly commendation awards from customer reviews.
- Honed skills for de-escalating emotional customers, kept a professional, respectful demeanor, listened attentively, and empathized. Was straightforward about customer options and followed up as promised, any issues were solved by researching several file caches, looking for patterns, and using problem solving skills.

Upper Crust Shop on Main, LLC June 2012-June 2013

Business Owner

- Created LLC, filed all necessary paperwork, applied for city permits and inspections by doing thorough research, kept self-set deadlines, and opened the doors on schedule.
- Negotiated with suppliers by having realistic purchase estimates prepared in advance to show value to their business.
- Kept food costs below 30% of menu cost and kept consumer pricing low by planning a menu that actively minimized food waste.

PNC Bank January 2006-March 2012

Teller Supervisor

- Responsible for audit including forms, protocol, and all tellers following policies. Improved failing score coming into position to 94% within six months. Recognized weaknesses and addressed problem areas immediately, consulted an auditor for major issues, effectively organized systems, and ensured tellers possessed the knowledge they needed.
- Successfully kept personal monetary control of 2 bank vaults, 2 ATM's, teller drawer, reflected in the rolling balance report, and kept tellers under the report limit as well; often had to research outages and find discrepancies to accomplish this.
- Coached tellers per individual styles on performance, resulted in sales increasing from 54% to 100% or over of goal and received consecutive BRAVO awards.
- Scheduled staff and ordered money based on generated projections but stayed in tune to the community to anticipate increased traffic and justify any divergence.

Leadership Experience

Society of Women Engineers

President of YSU chapter July 2014-July 2015

- Delegated responsibilities and tasks, got elected members to define and agree on roles and created new chairs for gaps.
- Recruited new, paying members, filed quarterly reports, and participated in regional meetings to achieve good standing for chapter.

POLY314

- Orchestrated and hosted Dinner With Industry (DWI) networking event. Performed all of the detailed tasks such as room reservations, parking access, and catering.
- Networked with potential sponsor companies for DWI at career fairs and stem expos, composed letters to companies asking for their support. Expanded company relationships with the university and made a substantial profit that was used to cover the next year's travel expenses.

Society of Women Engineers

Outreach Chair for YSU chapter

December 2013-April 2014

- Brainstormed and implemented the chapter's first outreach program to introduce younger girls to engineering. Researched areas where outreach was needed and initiated contacts and continuing relationship with regional Girl Scout leaders to engage participants. After the event 74.5% answered on survey that their interest in engineering as a career had increased.
- Recruited student volunteers to create and lead age appropriate activities that would showcase an engineering discipline and possible careers. Developed and provided volunteers with a clear metric to structure their time, activity, and budget.

Volunteer Experience

YMCA's Success After Six

September 2015-June 2016

- Committed every Thursday morning to volunteering. Assisted the teacher with one on one learning and behavior issues with 2nd graders. Used patience and methods like physically talking at their level to find the root cause of disruptive behavior or learning difficulty.
- Encouraged students to get excited about learning, especially about STEM and science subjects. Used positive affirmation and tried to instill a sense of self-worth, which was reflected in the warmth and depth of their thank you cards at the end of the year.

District 15 Lake to River Science Day

March 2016

- Interviewed, questioned, and scored 10-12 year old presenters in a science poster competition. Prompted them with supportive, open ended questions that made them think but wouldn't stump them.

Certifications

Safety and Chemical Engineering Education (SACHE)

Issued Fall 2016

Through American Institute of Chemical Engineers (AIChE)

- *Nitrogen's Role in Safety*
- *An Introduction to Managing Process Safety Hazards*
- *The Importance of Process Safety*
- *Hazard Recognition*
- *Minimizing & Identifying Process Safety Hazards*

Institute of Industrial Engineers

January 2014-2017

- *Lean Six Sigma Green Belt*

Technical Experience through Coursework

- Excel & ChemCad - proficient
- Matlab, R, Polymath - familiar