

Patricia A. Oleson, EIT

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Education:

- Jun 2021 – Aug 2023 Masters in Structural Engineering, Portland State University, Portland, OR
- Sep 2019 – Jun 2021 Bachelors in Civil Engineering, Portland State University, Portland, OR
- Jan 2017 – Jun 2019 Associates in Civil Engineering, Clackamas Community College, Oregon City, OR
- Aug 2002 – May 2006 Bachelors of Accounting & Finance, Saint Leo University, Saint Leo, FL

Experience:

WRK Engineers Inc

9/2023 to 1/2024

- Led seismic retrofit projects for existing structures, performing detailed ASCE 41-17 Tier 3 Assessments, and oversaw construction and implementation to enhance seismic resilience.
- Maintained effective communication with clients, contractors, and regulatory authorities throughout the seismic design process, ensuring project objectives were met on time and within budget.
- Created design packages for permitting.

Graduate Teaching and Research Assistant

3/2022 to 4/2022

- Prepared 20-minute lectures that introduced upper-level undergraduate students to basic materials concepts and theories. Demonstrated and facilitated laboratory and field analysis methods, including instrumentation setup and reading, tension testing on different metals, concrete mixing and compression testing, and analyzing the data in excel.
- Provided student feedback and helped to assist conceptual understanding during weekly office hours.
- Graded weekly laboratory reports and homework and provided feedback.
- Created written and video student manuals of the Materials Graduate Teaching position to assist new hires in working with the lab equipment.
- Designed bracing to remove Seismically Resilient Core Wall Mass Timber System.
- Built the top and bottom slabs for earthquake testing on Adhered Masonry Wall in the Infrastructure Research and Testing Lab. Prepared the instrumentation, helped facilitate the testing and analyzed the deflection data from the test.
- Trained and used forklift, telehandler, welding equipment and working from heights.

Structural Engineering Intern, The Boeing Company, Everett, WA

6/2020 to 12/2020

- Stress analysis work for the 777/777X Wing Team.
- Coordinated CASTLE packages of documented stress analysis work and design changes.
- Participated in POD2 8-week internship program.
- Trained in CATIA software.

Classroom Mentor, Math Engineering Science Association (MESA) Oregon, Portland, OR

9/2018 to 12/2019

- Assist classroom Advisor in implementing STEM related curriculum including attendance, set up, explaining concepts and leading activities.
- Assist students with winter and spring Human Centered Design challenges using engineering design, principles, rapid prototyping, and Arduino programing.
- Submit weekly reports of chapter meeting to leadership team.
- Develop 2019-2020 school year curriculum as a member of the Curriculum Council

- Implemented new Sage Paperless Invoicing for all branches of the company.
- Processed all incoming invoices by construction project.
- Tracked invoices payment scheduling and made on time payments.

Accounting Office Manager, Maple Lawn Homes, Eureka, IL

12/2008 to 12/2011

- Developed a monthly visual financial dashboard to provide views of our key performance indicators, forecasts and cash flow for the CFO. This was also used at the monthly Board Members meeting.
- Directed and coached the Payroll, Accounts Payable and the Accounts Receivable clerks and the General Ledger Accountant.
- Coordinated and prepared for the yearly audit. Significantly reduced the audit duration from 14 months to 2 weeks by updating our monthly closing duties, adding more useful information to our reports, and running internal audits.
- Managed and analyzed the buybacks, leases and amortization of the properties for The Cottages Retirement Community.
- Trained in Medicaid, Medicare, Child Care Connections and Department of Childcare and Family Services billing.

Accountant, Caterpillar Inc., Peoria, IL

05/2006 to 02/2009

- Sarbanes Oxley Coordinator - dealt with the removal of open access to Financially Significant Applications, the Business Process Security Control and the Segregation of Duties Testing.
- Tracked, forecasted and reported Internal Service Charges, Warranty and Freight expenses.
- Performed monthly financial closing duties and miscellaneous reporting such as Past Dues, Spoilage and the Travel accounts.

Skills:

- Excellent computers skills with solid working knowledge of Microsoft Word, Excel, PowerPoint, Accounting Software, QuickBooks, Sage Paperless Invoicing, AutoCAD, and ArcGIS Software.
- A working knowledge of SAP2000, BlueBeam, Enercalc, MATLAB, and Python3.
- Highly organized individual capable of handling numerous tasks.
- Welding

Awards and Accomplishments:

- Research and Publication – Impact of Truck Platooning on Loading of Bridges in Oregon, 2023
- ASCE Oregon Section Program Chair – Current
- Structural Engineering Institute (SEI) of Oregon – Treasurer (current)
- EERI Student Leadership Council - Student Design Competition Chair 2023
- Civil Engineering Department - Outstanding Graduate Student of the Year Award 2022
- AISC Steel Bridge Student Competition – Captain (2021-2022)
- Chi Epsilon – Vice President (2020-2021)
- PSU Maseeh College of Engineering and Computer Science - Vatheuer Family Scholarship
- National Science Foundation Green Building Scholar – Portland State University