

Peter Uzokwe

Naperville, Ill 60563 | Phone : 708-427-8988 | Email: uzokwepeterd@sau.edu

QUALIFICATIONS AND TECHNICAL SKILLS

- General knowledge of manufacturing machines: Nuclear components, CNC Machine, Band saw, Table Saw, Pumps, Valves, Boiling Water Reactors, Pressurized Water Reactors, System Testing, Systems Engineering, ASME CODE (Section IST), Control Schemes, System design (P&IDs), Calculations, Procurement.
- Microsoft Office (Word, Excel, PowerPoint, Outlook), Research, MATLAB, AUTOCAD, GIS Fiber database,
- SolidWorks, Rapid Prototyping, 3-D Printer, GD&T, AutoCAD, Creo, SPC, FMEA, Mechanical production, C++
- Honest, friendly, and outstanding written and verbal communication skills
- Work well in a team- based environment and skilled problem-solver, Time management,
- Well-organized, extremely motivated, confident, efficient; strong communication skills, and strong training skills

ACADEMIC EXPERIENCE

Bachelor of Science, St. Ambrose University, Davenport, IA
2020

Graduation: May

Major: Mechanical Engineering Minor: Mathematics

RELEVANT EXPERIENCE

Mechanical Test Engineer

Constellation Nuclear

August 2022-Present
Chicago, IL

- Implemented and directed required Inservice Testing and Appendix J Programs by Systemizing testing with Maintenance, Operations, Work Control and Outage management.
- Evaluated valve and pump test performances in order to maintain 100% power in the plant throughout the whole year.
- Collaborated with other Nuclear plants of the same organization in order to avoid potential disastrous situations that have already occurred.
- Implemented and carried out the repair and replacement of components that had adverse trends within the plants tech specifications.
- Oversight of system penetration leak Rate Testing during Outages and calculating available Margin before Reactor Start-up.
- Reviewed and confirmed that the valves and pump tests have not exceeded ASME OM Code limits as well as Design basis limits.
- Assisting Operations by Utilize P&ID's in order to navigate which penetrations and components to test before pressurizing specific pipes.
- Provide support prior, during and after test execution.
- Led projects with contractors and co-workers during relevant situational events as well as during refuel cycle outages.

Fiber Engineer:

August 2022
Exelon
IL

Sept 2021-

Chicago,

- Identified Fiber Specific Bill of Material whilst confirming material includes givver equipment as needed to carry out successful projects.

- Assisted project managers whilst creating and reviewing CAD drawings in order to maintain an organized and cost friendly project.
- Evaluate and Troubleshoot Fiver capacity of existing fiber plant if issues are emitted in order to eliminate an increased budget sufficiently.
- Identified Dark Fibers for use on new rings without scrambling the GIS database with multiple Splices.
- Worked within substations as well as attend construction and engineering meetings
- Implemented the use of GIS Fiber Database application in PNI by extracting and correlating data from another source in order to assist with projects.

Mechanical Engineer:

2021
Interlake Mecalux
IL

July 2020-Sept
Chicago,

- Implemented the use of AutoCAD by editing or redesigning Structural, Welded or bolted structures in order to fulfill customer application needs.
- Conducted hand calculations on Structural, Welded, and Bolted frames and beams for special case scenarios that resulted in the combination of multiple structure types.
- Analyzed components within projects and priced them out accordingly in order to keep them below the customer price limits.
- Implemented the use of Company made coding in order to price out components sufficiently.

Research:

2020
St. Ambrose University Math Dept.
Davenport, IA

Jan 2020- May

- Analyzed the idea of Eigenvalues
- Implemented the correlation of Eigenvalues and Harmonic oscillators
- Implemented the correlation of Eigenvalues and Cantilever Beams

Senior Design Project:

2020
Sears Seating Manufacturing company
IA

Jan 2020- May
Davenport,

- Conduct research and analyze the dynamics of seats manufactured at Sears
- Reverse engineer a seat to benefit Forklift operators

WORK EXPERIENCE

Residential Advisor:

2020
St. Ambrose University

Aug 2018- May
Davenport, IA

- Organize six educational and social programs per semester to create a welcoming community

- Uphold university policies and rules by enforcing it during weekly duty rounds
- Manufacture monthly billboards along with door decorations that promote diversity and engagements

Math Tutor:

September

2019-

May2020

Avid Tutor

Rock Island,

IL

- Provide relevant and necessary information on Algebra and Trigonometry
- Implement students with the opportunity to ask questions