

UCHE *Ajuonuma*

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SUMMARY

Highly motivated CAD Technologist and a Mechanical Designer with over 10 years of experience delivering design and drafting solutions for industrial equipment, infrastructure, and manufacturing systems. Proficient in AutoCAD, SolidWorks, and other CAD platforms, with expertise in producing detailed drawings, modeling, and layouts for diverse applications. Skilled in cross-functional collaboration, meeting project deadlines, and ensuring compliance with industry standards. Dedicated to leveraging my technical skills to support sustainable design and infrastructure projects.

CORE COMPETENCIES

- **CAD Software:** Proficient in AutoCAD, SolidWorks, Siemens NX, Inventor, and Solid Edge.
- **Design & Drafting:** Production of detailed fabrication drawings, piping layouts, and mechanical assemblies.
- **Collaboration:** Partnering with engineers and technologists to deliver design solutions tailored to project needs.
- **Industry Standards:** Knowledge of ASME, CSA, and OH&S standards for design and fabrication.
- **Software Proficiency:** Microsoft Word, Excel, and familiarity with Revit, Navisworks, and SketchUp.

PROFESSIONAL EXPERIENCE

Mechanical Design Engineer (E.I.T)

Solex Thermal Science – Calgary, AB | Feb 2024 – Present

- Designed moving-bed heat exchangers and bulk material handling systems, ensuring compliance with ASME Section VIII and CSA B51.
- Prepared fabrication-ready drawings, streamlining production and reducing time-to-market by 15%.
- Conducted FEA simulations and stress calculations to meet OH&S and CSA standards.
- Created piping layouts and flow diagrams using SolidWorks, Solid Edge, and Inventor

Senior Mechanical Designer

Westinghouse Electric Canada – Peterborough, ON | July 2023 – Feb 2024

- Designed nuclear material handling equipment using AutoCAD and SolidWorks, adhering to CSA N285.0, ANSI Y14.5, and ASME B31.3 standards.
- Mentored junior designers in SolidWorks modeling, GD&T principles, and revision control using SolidWorks PDM.
- Managed project schedules, collaborated with cross-functional teams, and achieved a 95% on-time delivery rate.
- Developed and validated engineering documentation, including BOMs and validation plans.
- Conducted design reviews to resolve conflicts early, enhancing production efficiency.
- Identified and resolved potential design conflicts early in the process, minimizing errors and enhancing production efficiency through proactive reviews and collaboration.

Research & Development Engineer

Intelligent Wellhead Systems (IWS) – Calgary, AB | April 2022 – July 2023

- Designed smart lock-out devices and wellhead systems compliant with ASME B31.1 and CSA Z662.
- Conducted tolerance stack-up analyses, reducing assembly errors and improving product reliability.
- Developed BOMs and detailed fabrication drawings, ensuring compliance with OH&S standards.
- Integrated customer feedback and field data into improved system designs.

Mechanical Designer - Product Quality Validator

SKF Group – Calgary, AB | May 2019 – April 2022

- Designed and tested mechatronic systems, including rotary magnetic levitation bearings, ensuring precision and reliability for high-speed industrial applications, utilizing AutoCAD and SolidWorks.
- Conducted finite element analysis (FEA) and rotational performance testing for neutron choppers and maglev bearing for compression and wafer manufacturing systems.
- Improved product performance through iterative design and testing, reducing production errors by 20%.

Senior Mechanical Designer

FuelFact – Ottawa, ON | Oct 2017 – May 2019

- Designed and detailed forecourt automation systems and fuel monitoring devices, ensuring compliance with CSA C22.2 standards.
- Performed material selection and design optimizations, reducing material costs by 15%.
- Conducted field inspections and prepared fabrication-ready sketches, ensuring precision and manufacturability.

Design Engineer

Innoson Motors – Nnewi, Nigeria | Oct 2012 – Oct 2017

- Led the design and development of truck bodies and vehicle components, achieving a 20% reduction in production time through optimized designs using Siemens NX.
- Streamlined product development by implementing a lifecycle management system for components and BOMs in Teamcenter, reducing development time by 30%.
- Collaborated with cross-functional teams to develop cost-effective and manufacturable designs, achieving a 98% on-time delivery rate.
- Applied lean manufacturing principles to reduce waste and improve overall process efficiency in vehicle production.
- Delivered robust, reliable designs that enhanced functionality and durability while meeting safety and regulatory standards.

EDUCATION

Bachelor's Degree, Mechanical Engineering

Imo State University | 2012

- WES Verified Transcript

CERTIFICATIONS

- **Certified SolidWorks Professional (CSWP)** – Dassault Systèmes
- **Professional Scrum Master (PSM)** – Scrum.org