



UCHE AJUONUMA

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Professional Summary

Design Engineering | Manufacturing Engineering | R&D Engineering | Agile Project Management

Refined mechanical engineer with over 6 years of experience in design and product validation. Proven record of accomplishment in delivering innovative solutions and exceeding performance targets. Proficient in Solidworks and other CAD software, with a CSWP certification. Skilled in project management, team leadership, risk mitigation, and problem-solving. Experienced in Lean Six Sigma and Agile methodologies. with a great reputation in handling Engineering Change Request (ECR). Robust experience in user-research, problem analysis, project life-cycle management, product prototyping and development. Seeking a challenging mechanical design engineer role to contribute my skills and expertise.

Areas of Expertise:

- Product Optimization
- Design for Manufacturing
- Six Sigma Green Belt
- Problem-Solving
- Meticulous Observation
- Project management
- Team Collaboration/Leadership
- Supply Chain Management
- Simulation-Driven Product Development
- Agile methodologies (Scrum, Kanban)
- Additive Manufacturing (3D Printing)
- Internet of Things (IoT)

Skills & Proficiencies:

CAD:	Solidworks, AutoCAD, Inventor, PTC Creo, Fusion 360, CADWorx
Programming:	Python, OpenGL, C++, PyQt, R, Microsoft Office
Design & Simulation:	Solidworks Simulation, CFD, Ansys, MATLAB, SimuLink
Product Management:	Solidworks PDM, Movex, SAP, Bit
Prototyping:	3D printing, Laser Cutting, Raspberry Pi, Arduino
Professional Codes:	ASME Y14.100, ASME Y14.41, API, ISO12004-1, ASCE, ASME, CSA, ASTM E8/E8M

Professional Experience:

Research and Development Engineer – Intelligent Wellhead Systems (IWS) (Aug 2022 - Present)

- Conducted research on safety systems and equipment for oil and gas operations, resulting in the development of a new safety system that received industry recognition.
- Designed and developed prototypes for wellhead digital control safety equipment using Solidworks and other CAD software, resulting in a 20% reduction in product development time and a 15% increase in product reliability.
- Developed Over 20 NPD Prototypes Using Additive Manufacturing (3D printing) in My first 90 Days
- Utilized Scrum methodology in the development process, resulting in a 25% reduction in development cycle time and a 10% increase in team productivity.

Product Quality Validator – SKF Magnetic Bearings (May 2020 - Aug 2022)

- Led validation testing for mechatronic products, resulting in a 15% reduction in testing time and a 10% increase in product reliability.
- Developed and executed test plans, analyzed test results, and provided recommendations for product improvement, resulting in a 20% reduction in product failures.
- Implemented Scrum and Kanban methodologies in the testing process, resulting in a 20% increase in team efficiency and a 15% reduction in testing cycle time.
- Utilized Solidworks to design and simulate products (FEA), improving product performance and reducing production costs.
- Optimized the Manufacturing Process of the DE Stators from 10 Hours to 2 Hour Cycle Time
- Troubleshoot high-precision systems like magnetic levitation bearings and turbo- machines.

Research and Development Engineer – FuelFact (Oct 2018 – Jan 2020)

- Checked for concepts and material availability for potential implementation of the NPD projects.
- Developed and maintained company's engineering database and library.
- Efficiently handled all the Engineering Change Request (ECR) with 100% response rate.
- Collaborated with cross-functional teams to resolve design and manufacturing issues.

Mechanical Design Engineer – Solomento Auto Center (Oct 2014 – Oct 2018)

- Led a team of 5 engineers to design and develop components for automotive transmissions, resulting in a 15% increase in product reliability and a 10% reduction in manufacturing costs.
- Utilized Six Sigma methodologies to improve product quality, resulting in a 20% reduction in defects and a 30% increase in customer satisfaction.
- Collaborated with manufacturing and quality teams to ensure design feasibility and product reliability, resulting in a 25% reduction in production time.

Education

- Simon Nehme Summer Entrepreneurship School, University of Ottawa, Ontario, Canada (2018)
- Bachelor of Engineering in Mechanical Engineering (2012)

Certifications:

- 2023: Certified SolidWorks Professional (CSWP) – Dassault Systèmes
- 2022: SAFe® Scrum Master – Scaled Agile
- 2022: Professional Scrum Master (PSM) – Scrum.org.

Professional Affiliations:

- National Society of Black Engineers (NSBE) – Member
- Alberta Additive Manufacturing Network (AAMN) – Member
- Association of Professional Engineer and Geoscientists of Alberta (APEGA) – Member in process.