

James Asomani

Mechanical Engineer - Canadian Citizen

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Work Experience

AISIN Technical Center/Toyota – Plymouth MI/USA

❖ **Senior Engineer****August 2020 – October 2023**

- Senior Release Engineer responsible for weld and accessory exterior trim parts.
- Lead supplier engineer for customer engagement, while managing programs from concept to production.
- Mentored and supported new Design Engineers for AISIN growth.

❖ **Design Engineer** **August 2016 – 2020**

- Engineer managing OEM accounts such as Toyota, GM, Mazda, Nissan, and Stellantis(FCA).
- Contracted to Toyota for in-house design development on the new Tundra truck.
- Coordinated with cross-functional Nissan team to mitigate noise rattle problems on production vehicles. Increased customer plant team member productivity by reducing tact time by 12%.

❖ **ISO Audits : Exteriors Team Representative** **December 2016 - August 2023**

- Organized documentation and communicated to auditors to prove ISO 9001 compliment.

Aerodynamic Inspecting Consultants –Toronto ON.

❖ **HVAC Balancer** **January 2016 –March 2016**

- Balanced ductwork using VFDs, resulting in increased HVAC performance (cost reduction of 8.5%).

General Motors (GM) - Oshawa ON.

❖ **Computer Aided Engineer**.....**June 2013 – September 2014**

- Stochastic Analysis Project used for Active Deploy Safety Systems for Pedestrian Protection initiative. •Optimization project using FEA optimization software for A1BC Hood Hinge to increase stiffness/weight ratio through topology optimization.
- Performed FEA analysis including static, thermal, dynamic, aerodynamic, fatigue loading.
- Lab Technician Support and CFD modeling assistance for a Diesel Exhaust Fluid (DEF) Freeze-Thaw project (Silverado program). Correlating physical experimentation to analytical data.

EDUCATION

Bachelor of Engineering..... **2010- Graduated 2015**

University of McMaster ,

Languages: English, French

Projects:

- Bombardier Aerospace-sponsored prototype floorboard for aircraft installation, projected annual savings of \$10,000 through insurance reduction–Capstone Project.
- Designed a scissor lift to transport a gas cylinder from the bottom to the top of a flight of stairs.

Skills and Training

Engineering Expertise: GD&T,ASME Y14.5M, Lean 5s, Kaizen, Root Cause Analysis, DFMEA/DRBFM,PPAP

Technical Competencies:Catia V5 Fundamentals, Fundamentals of GD&T (SAE Intl.), Nissan PLM, WHMIS, Lockout Training

Software(CAD & CAE):Catia V5(6.5 years), AutoCAD (1 year), Solidworks, NX (8.0), Teamcenter, Hypermesh12, ABAQUS, nCode Design Life

Common Software: AISIN mainframe, Micro.Office,Matlab,Java, CSS,React, Next,Tailwindcss,Python,HTML5