Seeking a challenging position that utilizes my technical experience, strong communication and leadership skills to learn and make a positive contribution to the organization.

**Education**

## University of Nebraska-Lincoln – Lincoln, Nebraska, GPA 4.0

**Master of Science in Engineering Management (CPEM, PMP), anticipated graduation: 04/2024**

*Major: Engineering Management (CPEM, PMP)*  *Minor: Business*

## Western Michigan University - Kalamazoo, MI

## Bachelor of Science in Engineering, 04/2013

*Major: Aeronautical/ Mechanical Engineering (ABET Accredited) Minor: Mathematics*

**Relevant Courses:**

Engineering Management and Aeronautical Engineering: Project management, Engineering economy, Making hard decisions, Supply chain management, Managing engineers, Strategic management and planning, Teamwork for organizational commitment & organization, Statics, Dynamics, Fluid Mechanics, Machine Design, Thermodynamics and Heat Transfer, Mechanism Analysis, Control Systems, Aircraft Structure, Aircraft Design.

**Work Experience**

**Sr. Manufacturing Engineer-Stamping feasibility,** 04/2021-Current

*Rivian (Plymouth, MI)*

* Managing the blank savings project for R1 vehicles via Smartsheets by interacting with Tooling Engineers, Process Engineers, Production control, material purchasing and material analysts.
* Performing stamping simulations to ensure the best-in-class processes utilizing, DFM and DFA.
* Leading full vehicle analysis part feasibility, process analyses and material choice.
* Cross functional work with product engineering, body assembly, paint, and End-Of-Line to solve vehicle quality issues in RPV.

*Project leader: Rivian R1 program stamping cost reduction, ~2.6 million cost reduction.*

* **Leadership**- Leading blank reduction analysis by cross functionally working with Production Control, process engineers, tooling engineers, material analysts, material purchasing, finance and Vehicle Line Director (VLD).
* **Time Management**- Set up project goals and schedule. Arranged team meetings to discuss progress and execution of project plan within the allocated time.
* **Task Management**- Set project priorities and allocated tasks to each member of the teams involved.
* **Cost Management**- Analyzed the cost involved in the project and worked with finance to get budget approval by performing analysis using NPV, IRR, payback period and hurdle rate (MARR).

**Simulation Engineer-Tooling and Die Engineering,** 04/2017-04/2021

*Tesla (Grand Rapids, MI)*

* Designing dies used for class A surfaces and closures using Catia V5.
* Performing simulations on Tesla automotive parts and battery parts to check for manufacturing issues using AutoForm R7.
* Leading material testing studies to determine material cards accuracy, as well as to accurately predict tryout results from CAE Simulations.
* Leading continuous improvement projects such as material and springback studies.

**Simulation Engineer-New Product Development,** 02/2015-03/2017

*G-TEKT North America Corporation (Dublin, OH).*

* Designing and modeling dies to manufacture Honda automotive stamping parts using CATIA.
* Performing simulations to check for formability of automotive parts using JSTAMP/NV and working closely with the Guest Engineers to ensure customer satisfaction on Honda models.
* Leading meetings between Guest and Simulation Engineering Departments and participating in Quality Circle to streamline inter-department communication.
* Performing crash analyses for Honda MDX 2018 to establish countermeasures to increase vehicle safety-Side Impact, Frontal crash, Pole crash and roof crush using ANSA and META.
* Performing drop analysis to ensure Honda parts quality during manufacturing stacking.

**Technical Skills**

**Programs:** Smartsheet, Palisade, AutoForm R7; CATIA V5; JSTAMP/NV; Forming Suite; Ansa; HyperWorks; Pro-E/ Creo; PTC PDMLink Windchill; Citrix Receiver; Infinity QS; labVIEW ; COMSOL; SolidWorks; MATLAB; AutoCAD; Abaqus; Microsoft Office Suite; Windows 98/2000/ME/XP/Vista/7; LaTex; TinyCAD; Plex.

**Honors, Clubs, Publications and volunteer**

**Honors:** WMU Diether Haenicke Scholarship, 2010-Graduation; WMU Dean’s list, 2011 and 2012; OVPR Undergraduate Research Excellence Award, 2012 and 2013; spring 2013 MAE Merit Scholarship, Toastmasters, Full Scholarship-Senior High school year, Best Chemistry Student- High school Junior year.

**Publications:** Numerical simulation of pH-sensitive Hydrogel response in different conditions (proceedings of COMSOL Conference Boston 2012, Boston Massachusetts-October 3-5, 2012) by Brian O. Asimba, Andrew K. Shigoli, Kamlesh J. Suthar, Muralidhar K. Ghantasala and Derrick. C. Mancini.

**Volunteer:** Meals on wheels-Assisting elderly people to have a meal.

**Languages:** English, Luo, Swahili.

**Hobbies:** Soccer, reading, investing.

**Portfolio:** https://brianasimba.github.io/Portfolio/