

Work Experience

General Motors, Fort Wayne, IN

Electrical Quality Engineer – Electric Modules

June 2022-Present

- Investigate electric first-time quality faults for improvement opportunities on current software or hardware to reduce end of line module software flash, static vehicle testing, and dynamic vehicle testing failures
- Develop and execute production plans for building vehicles without modules due to supply chain shortages.
- Manage salary repair verification team that confirm repairs are done properly to vehicles built without modules
- Conduct new software and hardware production trials before introducing the changes into normal production
- Manage containment, sorting, and repair protocols for all vehicle module quality issues
- Coordinate with supplier representatives to implement appropriate containment at supplier facilities
- Develop and execute supplier practical problem-solving items to track supplier improvement actions

Exterior Quality Engineer – Body Shop

July 2021-June 2022

- Evaluated body in white dimensional data for opportunities to improve fits and fix build obstacles down stream
- Championed plant owned engineering change requests and problem resolution tracking for sheet metal parts
- Conducted production trial runs to test new sheet metal parts on the line before adopting them into production
- Analyzed customer feedback regarding paint defects and confirmed plant took action to reduce the mutilations

Exterior Quality Engineer – Box Line

May 2021-Oct 2021

- Ensured product quality standards were maintained for all emblems, decals, and box line parts
- Analyzed emblem warranty claims and updated plant vision tracking system to identify incorrect or misaligned emblems in-house
- Programmed new database to improve efficiency of repair tracking on substandard vehicles
- Utilized Shainin Red X problem solving to determine root cause of vehicle defects and design a solution to eliminate defects and improve plant quality metrics

Quality Engineering – Supplier Action Center

August 2020-May 2021

- Responded to all part quality issues in general assembly, paint, and body shop
- Conducted root cause analysis of new part quality issues to effectively execute immediate containment
- Coordinated with Quality Engineering and Material departments to contain, sort, and rework part quality issues
- Prioritized hourly worker's efforts to ensure clean production breakpoint was maintained and prevent downtime
- Generated task instruction sheets to improve cross shift communication of containment actions
- Validated out of specification parts and documented them for cost recovery
- Oversaw time keeping, overtime, and department manpower for hourly personnel
- Conducted monthly safety tours to ensure a safe work environment was maintained
- Maintained positive relationships with union personnel

Education

Purdue University, West Lafayette, IN

December 2019

Bachelor of Science in Mechanical Engineering and Certificate in Entrepreneurship

Technical Skills

Catia V6

Creo Parametric

Solidworks

Team Center

Autodesk Inventor

AutoCAD

Visual Basic

Microsoft Access Database

MATLAB

Microsoft Office

GD&T

Shainin Red X Apprentice