

JAIME VILLANUEVA NOLASCO

e-mail jvn_23@hotmail.com

USA Mobil + 1 423 7502650

Mex.Mobil +52 8441753725

Chattanooga TN (TN Visa)

Skills

CAD Software Proficiency, 3D Modeling and Drafting, Engineering Analysis, GD&T Knowledge (Geometric Dimensioning and Tolerancing), Materials Knowledge, Manufacturing Processes Dimensional Metrology; CMM Programming & Operation; Measurement Data Analysis; Manufacturing Knowledge; Quality Systems Knowledge.

PROFESSIONAL EXPERIENCE

Hatch Stamping Chattanooga TN

Quality Engineer

March 2023- Current

Responsible for ensuring that products and manufacturing processes meet established quality standards and customer requirements. Develops and implements quality control systems, analyzes production data, and leads root cause investigations to resolve defects and prevent recurrence. Collaborates with cross-functional teams to improve processes, reduce variability, and enhance product reliability. Conducts internal audits, manages corrective and preventive actions (CAPA), and ensures compliance with regulatory and industry standards. Supports supplier quality management and drives continuous improvement initiatives using quality tools and statistical analysis.

Core Skills

- Quality Assurance & Quality Control
- Root Cause Analysis (RCA); Data Analysis (Excel)
- Core Tools Management, Failure Mode and Effects Analysis (FMEA), Control Plan (CP), Production Part Approval Process (PPAP), Measurement System Analysis (MSA).
- Corrective and Preventive Actions (CAPA)
- IATF 16949 Quality Management Systems; Auditing & Compliance
- Process Improvement; Problem Solving & Risk Management
- Supplier Quality Management; Customer Issue Resolution.
- Checking Fixture Design, and Management
- GD&T Interpretation and Application
- CAD Management (Solidworks, Catia V5)
- CMM Programmer (PC Dmis , Polyworks)
- Reverse Engineering
- Keyence Microscope Management

Acknowledgments

Scrap Elimination Record 2024

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Hwaseung Automotive Alabama LLC

Enterprise, Alabama/ United States

Extrusion Engineer

11/2020- March 2023

Achievements

- Scrap reduction from 350 kg to 20 kg per day.
- Eliminated overproduction from 70 pieces to 10 pieces per model change.
- Complete schedule on time due to process improvement.

Responsible for:

- Develop, evaluate, and improve operations processes
- Minimize backtracking of work in the process.
- Guarantee for adequate use of the raw materials and inputs of the process.
- Review KPI monitoring systems to determine ways to improve company operations and eliminate waste.
- Work Closely with Hwaseung´s Quality team to create, improve and develop standardized work instructions.
- Make documentation of each improvement made in the process.
- Training on the use of the Faro arm and PolyWorks.

Lear Corporation

Saltillo, Coahuila México

Metrology Engineer

09/2019-11/2020

Achievements

- Reduction of measurement and certification times of sub-assembly and assembly to new projects 31XX Latches.
- Cost reduction for the purchase of new measurement equipment.
- Creation and standardization of inspection programs for each active project.

Responsible for:

- Plan the first part inspection (FAI; first article inspection).
- Development of dimensional programs for Automotive components in Global machines.
- CMM programmer through PC-Dmis software using Math Model (IGES, STEP) and 2D GD&T.
- Work closely with the Tool Room team, the Project Engineers team to ensure the correct fit of fixture and assembly presses.
- Validation, Calibration and adjustment of Checking Fixtures and Holding Fixtures.
- Calibration of measuring equipment (Bore gages, Vernier, Micrometers, Scales, & Torque wrench).
- PPAP and MSA studies.
- Preparation of External Quality Audits.

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Clark Fixture Technologies Mexico

Ramos Arizpe, Coahuila/ México

Designer Engineer 09/2013-09/2018

Achievements

- Growth within the company from assembler to Design Engineer.
- Time reduction and improvement in projects of the India Team.
- Increase in productivity from \$ 25,000 dlls to \$ 125,000 dlls per month only in 6 months.

Responsible for:

- Design and conceptualization through SolidWorks.
- Design of machining processes through Esprit.
- Device Design for Automotive Assembly.
- Engineering changes using Math Model (IGES, STEP) and 2D drawing as well as existing designs.
- Supervision and training at headquarters located at India.
- Control and documentation of each design made.
- Technical and Operational Support in the Metrology area.
- CMM Programmer and operator using Brown & Sharpe and Global Machine & Romer Arm through PC-Dmis Software.

Induma

Saltillo, Coahuila/ México

Assembly Engineer 05/2010-05/2013

- Plan and coordinate the mechanical and electrical assembly of automated systems and industrial equipment according to engineering drawings, specifications, and project timelines.
- Interpret and work from technical documentation such as CAD drawings, wiring diagrams, pneumatic and hydraulic schematics.
- Supervise and support assembly technicians during equipment build, ensuring proper procedures, quality standards, and safety requirements are followed.
- Perform mechanical assembly, alignment, and integration of components including frames, actuators, sensors, conveyors, and robotic systems.
- Collaborate with design, controls, and project engineering teams to resolve technical issues during the build and integration phases.
- Conduct functional tests, troubleshooting, and adjustments to ensure equipment operates according to design specifications.
- Support system integration activities including electrical wiring verification, I/O checks, and basic commissioning tasks.
- Document assembly processes, modifications, and lessons learned to improve future builds and maintain accurate project records.
- Coordinate with supply chain and warehouse teams to ensure availability of parts, tools, and materials required for assembly.
- Participate in Factory Acceptance Tests (FAT) and assist with equipment preparation for shipment and installation at customer sites.
- Promote continuous improvement by identifying opportunities to optimize assembly processes, reduce build time, and improve product quality.

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Education

Instituto Tecnológico de Saltillo

Industrial Engineer, 2003-2008

Cbtis No. 97

Technician Automotive mechanic, 1994-1997

Certifications

Competitive Quality Six Sigma Diploma June 2008

Diploma in Electromechanical Maintenance July 2013

Geometric Dimensioning & Tolerancing (GD&T) March 2016

Basic CNC Training August 2016

Intermediate CNC Training November 2016

Welding Fixtures BIW Training September 2025

Additional

- Spanish native language
- English Advance
- German Beginner