

## **Bill Woods**

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### **Qualifications Summary**

Quality Engineer offering 20+ years experience in manufacturing. Specific experience with plastic injection molded panels, tail lights, and seats. Strong background in Root Cause Analysis, Process Control Plans, Gage Analysis, Capability Studies, Fishbone Diagrams, Failure Modes and Effects Analysis, Corrective Action Reporting and Lean Manufacturing. Computer skills include Microsoft (WORD, EXCEL, etc), MeasurLink and Minitab. Proficient in GD&T, CMM measurement data and blueprint reading with 6 years experience as a Dimensional Control Engineer. Quality Manager of a supplier plant for 4 years. Lead Auditor for TS16949 and QS9001 quality standards.

### **Education**

BS, Industrial Engineering, Mississippi State University, Starkville, MS

### **Certifications**

ASQ Certified, Quality Engineer and Quality Auditor

### **Experience**

Nissan Portland, TN 9/2008 - 12/2008

*Quality Engineer - Underbody Assemblies (Contract)*

- Consulting with Nissan supplier to improve product quality
- Process capability and gage R&R studies
- Root cause analysis

Hennessy Lavergne, TN 3/2007 – 9/2008

*Quality Engineer - Tire Changers (Contract)*

- New product launch
- Root cause analysis, supplier development, and lean manufacturing
- Improved internal quality and warranty 100% in one year

Schefenacker Selmer, TN 3/2006 – 11/2006

*Quality Engineer - Tail Lights (Contract)*

- Program a MeasurLink database for managing variable product data
- Develop the most efficient methods for collecting product measurements. Order equipment, write job instructions and conduct training
- Develop daily reports for dimensional quality sent to Mercedes and BMW
- Perform Attribute Agreement Analysis to reduce scrap due to visual defects
- Perform TS16949 Internal audits

Mercedes Vance, AL 10/2005 – 1//2006  
*Quality Engineer - Seats (Contract)*

- On-site Mercedes representative at JCI Athens seat frame plant
- Conducted audit of stamping, welding and assembly processes
- Developed issues list with the Mercedes and Plant Quality Manager
- Led Investigation of chronic product failures due to weak design

Mitsubishi Normal, IL 8/2005 – 10/2005  
*Quality Engineer – Injection molding (Contract)*

- Conducted both product and process audits at painted plastic supplier locations
- Assisted with integration of exterior plastic panels into new launch vehicles
- Problem solving launch issues on headlight, fascia, emblem and grille

General Motors Corporation Spring Hill, TN 1986 – 2005  
*Compliance Manager 1998 – 2005*

- Approved all plant procedures and instructions prior to implementation
- Supervised two Quality Engineers in designing error proofing for critical torque operations; resulted in no fastener related recalls in last three years
- Supervised five Lead Auditors in assessing plant compliance with GM and ISO9000 / QS9001 / TS16949 requirements
- Trained and supervised eight Quality Technicians who conducted a daily Critical Process Audit to verify that product engineering specifications and Federal Motor Vehicle Safety Standards were met
- Developed process to contain plant quality spills before any suspect vehicles were shipped; negotiated decisions to protect customer while maintaining production output

*Dimensional Control Engineer 1992 – 1998*

- Conducted Production Part Approval of roof, hood and injection molded exterior panels for 1992 Saturn model change; launch was made without decrease in quality or production
- Developed plan to validate cockpit assembly process prior to launch of 1994 model change; variation of interior fits was reduced from prior model
- Resolved production interior and exterior fit problems using CMM data and statistical analysis
- Conducted repeatability studies to reduce variation of plant fixtures and gages
- Mastered skillet conveyor to repeatedly position the vehicle to within .5 MM during automated insertion of cockpit; plant downtime was reduced by 10 hours per week

*Quality Engineer - Chassis 1990 – 1992*

- Developed math model for analysis of camber, caster, and toe alignment issues
- Led team assigned to reduce alignment warranty claims
- Recommended changes to body weld fixtures based on CMM data

- Designed hand applied gages and cradle alignment tools to maintain process capability.
- Performed CMM analysis of all underbody attachment points to assure fit of chassis components

*Quality Planner - Supplier Quality 1986 – 1990*

- Designed and conducted Quality Engineering training for sixty Design and Manufacturing Engineers. DE's used the training in evaluating suppliers and design for assembly. ME's used the training to plan gages and process controls for the Saturn Plant
- Developed Saturn Process Failure Modes and Analysis program and facilitated sessions for assembly of 200 purchased components
- Participated in fifteen cross functional Product Development Teams
- In-house consultant to Product Development Teams during source selection of purchased parts; Quality Programs of potential suppliers were evaluated and weaknesses addressed

Tridon, Inc.

Smyrna, TN

1982 – 1986

*Quality Manager*

- Developed complete Quality Plan to comply with GM, Ford, Chrysler and Nissan requirements; OEM sales increased from 0% to 50% of sales in 4 years
- Trained all personnel (VP Operations to Machine Operator) in Statistical Process Control; control charts were implemented on critical processes
- Resolved product issues by immediately identifying root cause and implementing irreversible corrective action; Corrective Action Reports were never written against the plant
- Developed suppliers based on surveillance audits and measured product results; all suppliers were approved for OEM
- Installed metallurgical lab to test ASTM standards; managed department staff of 10 Quality Technicians and 1 Metallurgical Technician
- Increased manufacturing capacity by 50 % in 4 years without adding labor or machinery

**Military Affiliation**

United States Marine Corps – Veteran, Captain, Fighter Pilot