

## JOHN METHOT

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### Quality Engineer

#### **Six Sigma / Lean Manufacturing / Root Cause Analysis / Cycle Time Reduction / Shainin / SPC Cost Control / Taguchi / Kaizen / Engineering Management / ISO 9000 / JIT / Quality Training**

As an expert in root cause analysis and statistical process control, I have helped multiple Fortune 500 companies such as **Motorola, Control Data Corp., Ford Motor, and GM** to solve engineering and supplier quality issues. Using Six Sigma Black Belt methods, I reduced costs of manufacturing and improved yields in production for automotive, rubber, computer hardware, semiconductor, and electronic manufacturing companies.

Throughout my career, I taught managers and engineers how to apply statistical methods for analysis to solve engineering challenges. I delivered classes in companies on computer applications, databases, and Microsoft Office. In the quality arena, I taught courses on problem solving, statistics, SPC, control chart interpretation, and measurement system analysis. Some of my key strengths are:

- Implementing Six Sigma methodologies**
- Conducting root cause analysis and instituting manufacturing solutions**
- Balancing assembly line production through lean manufacturing techniques**
- Assuring high quality standards are met by parts suppliers**
- Training engineers and managers in statistical methods and process control**

I received a **BS** in Business Administration from Touro University International and a **Diploma** in Electronic Engineering Technology (the equivalent of a BSEE) from St. Lawrence College of Applied Arts and Technology. My **Six Sigma Black Belt Certification** is from the American Society for Quality.

My technical skills include AutoCAD, cellular manufacturing, TQM Planning, multi-variable investigation, and failure mode and effect analysis. I conduct process flow analysis, control chart examination, and Design of Experiments. My communication and team building skills are exceptional.

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### SELECTED ACCOMPLISHMENTS

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**Bringing manufacturing processes under statistical control.** Company receiving high volume of returns on weld clips. Parts failed during assembly or in the field. Established quality team at manufacturing site and retained Taguchi expert to conduct DOE on the welding process. Of 72 SPC data points, 32 were out of control indicating an unstable process. Implemented SPC, conducted another DOE, and brought process under statistical control.

**Implementing IPC Standard to evaluate printed circuit boards.** Ft. Worth factory had quality concerns which were carried over to Mexican factory. Customers were impacted by them. Conducted full analysis of Ft. Worth plant, documenting all issue and discrepancies. Ran failure analysis on circuit board. Presented findings to management, winning approval for new equipment purchases. Instituted IPC standard evaluations at both plants.

**Conducting process flow analysis.** Wire manufacturer had bubbles forming in resin insulation for heavy gauge transformer wire. Isolated variation in manufacturing between parts made at machine start-up and those produced following start up. Identified cause as thermal expansion. Added thermal compensation to reduce variation, cutting in-field and in-house failures and saving \$2M on one product line.

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### Career Highlights

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**Consulting Engineer, MSX, 2005 to Present.** Deliver engineering services to automobile industry manufacturers including Ford, Chrysler, and GM. Work with suppliers to companies, conducting audits and determining corrective action to remedy production concerns. Make recommendations for changes.

**Supplier Quality Engineer, Valeo Electronics, 2000 to 2005.** A \$466M automotive parts company. Interfaced with over 20 factories supplying piece parts for assembly in components used by GM, Ford, and Chrysler. Managed part quality for switches, controls and sensors for a variety of platforms. conducting audits and validating CA.

**Corporate Engineer (Black Belt), Superior Essex Group, 1998 to 1999.** Tasked to apply Six Sigma methods to multiple divisions of \$382M wire and cable manufacturer. Tasked with solving chronic production problems with potential cost savings of more than \$500K annually. Taught statistical analysis to engineers and managers.

**Earlier: Quality/Manufacturing Engineer, Autocon Technologies; Quality Manager, Stuart Manufacturing; Quality Manager, AEC; Product Engineer, Motorola.**

**Additional information:** Winner of three Norris Awards for innovative thinking from Control Data Corp. Master Seaman, Royal Canadian Navy. I enjoy photography, wood working, camping, history, museums and zoos.