

# Christopher B. Bigelow

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## PROFESSIONAL SUMMARY

- Senior Industrial / Manufacturing Engineer with additional experience in quality engineering as well as engineering and quality supervision / management
- Strongly impacts the bottom line by successfully identifying opportunities to reduce manufacturing cost, cycle time and defects and implementing changes to realize those savings
- A diverse engineering and business background enables expertise in seeing the big picture while being very effective in addressing small details
- Technical strengths include:

**Six Sigma**  
**Lean Manufacturing**  
**New Product Intro**  
**Process Documentation**

**Process Flow Improvement**  
**Powder Coat & Plated Finishes**  
**Capital Equipment Justification**  
**Product/Process Cost Reduction**

**Plant Layout Design**  
**Fixture/Gage Design**  
**ISO 9001/ISO 14001**  
**Fabrication/Assembly**

## EXPERIENCE

### **Jiffy-tite (contract through STR), Lancaster, NY 14086**

Manufacturer of quick connect fittings for the automotive OEMs and aftermarket  
Software used: MS Office, Outlook, IntelliCAD (AutoCAD clone), SyteLine (ERP)

#### ***Senior Industrial Engineer***

***2010 - Present***

- Analyzing shipping process to identify improvements to reduce shipping errors
- Reviewing how finished goods are labeled, moved, and stocked to warehouse
- Implementing a Kanban inventory control system for finished goods
- Investigating opportunities to better utilize business system and proposing changes to obtain those benefits

### **Southco Inc., Honeoye Falls, NY 14472**

An \$80M division that designs and manufactures latches and access hardware.  
Software used: Windows, MS Office, Project, Visio, ProcessModel, MacroExpress, AutoCAD, SDRC I-Deas, Siemens NX 5.0 with Teamcenter, SYMIX and SAP.

#### ***Senior Manufacturing Engineer – Assembly & Finishing***

***2000 - 2009***

- Replaced aging powder coat rack burn-off oven under budget and under schedule, improving effectiveness, increasing capacity by 33%, and decreasing cycle time by 38%.
- Developed and implemented a "Pit Crew" set up method for powder coat operation, reducing setup time 47% and saving \$71K/year.
- Created a new, overall facility layout to optimize process flow through the facility by gathering and analyzing data on processes, products and material flow.
- Contributed to implementation of Demand Flow Technology/Lean Manufacturing using 5S, VSM and Kaizen; determined labor and machine capacity, floor space required, Kanban sizing, material storage needs and cell layout.

#### ***Manufacturing Engineer II and Team Leader***

***1994 - 2000***

- As Team Leader (1997-1999), supervised 5-8 members of engineering department. Set and monitored team objectives, priorities and budgets; conducted interviews and performance appraisals.

- Led cross-functional team in product cost reduction resulting in immediate 30% cost reduction and 600% sales increase over six years.
- Developed and implemented assemble-to-order cells, reducing finished goods inventory 77%-97% and setup time by 80%.
- Justified and acquired an order picker truck, reducing time to replenish component storage flow racks from 5 minutes to 2 minutes per item.

**ABB Kent-Taylor Inc., Rochester, NY 14602**

A \$50M division that designs and manufactures process control instruments.

***Manager - Quality Assurance / Quality Control* **1991 - 1993****

- Established, staffed and managed a new manufacturing QA/QC organization for Rochester site. Led and coached staff of 8 with budget of \$450K/year.
- Drove site effort towards ISO-9000 quality system certification.
- Developed closed loop corrective/preventive action system.

***Manufacturing Engineer - CNC Machine Shop* **1988 - 1991****

- Modeled machine load and capacity to forecast five year capital requirements.
- Justified, purchased and installed capital equipment including \$250K vacuum furnace which provided \$100K/year savings and \$100K aqueous parts washer which reduced solvent consumption by 20 tons/year.
- Created CAD layout of shop and analyzed material flow (Master's thesis).

**Prior Relevant Experience**

***Quality Engineer - Assembly & Test at Rotorex***

***Manufacturing Engineer - Final Assembly & Test at Rotorex***

***Manufacturing Engineer at Ingersoll Rand***

- Developed & implemented custom molded EPS packaging saving \$100K/year.
- Justified & installed PLC controlled, conveyORIZED packaging line saving \$40K/year.
- Developed \$1M automated cell to manufacture valve plates from raw stock to finished product with expected savings of \$350K/year.
- Redesigned and programmed equipment for automatic load/unload of forming press using pneumatics, sensors and PLC, saving queue time & five direct labor personnel.
- Automated stockroom and parts delivery using horizontal storage carousels and conveyor transporter system, saving 500 square feet and two indirect personnel.

**PROFESSIONAL AFFILIATIONS**

Institute of Industrial Engineers, Rochester Industrial and Manufacturing Engineering Society, August Group, Digital Rochester, PeerNet, FreeNet.

**WEB PRESENCE**

[http:// www.chris-bigelow.com](http://www.chris-bigelow.com), [http:// www.linkedin.com/in/chrisbigelow](http://www.linkedin.com/in/chrisbigelow), <http://twitter.com/cbbigelow>, <http://www.visualcv.com/chrisbigelow>

**EDUCATION**

**MS, Industrial Engineering:** Alfred University, Alfred, NY 14802

**BS, Engineering & Management:** Clarkson University, Potsdam, NY 13699

**Other:** Six Sigma Green Belt trained, Southco Management Development Program, GCC Management Certificate, Motorola Management Institute.

**KEYWORDS**

SixSigma, 6Sigma, SSGB, DFT, DFA, DFM, DFMA, Design for Assembly, Design for Manufacture, Design for Manufacture and Assembly, programmable logic controller, ladder logic, sensors, pneumatics, cylinders, Failure Modes and Effects Analysis, FMEA, DFMEA, PFMEA, Microsoft Office, Excel, Word, PowerPoint, Access, Paint Shop Pro, Lotus Notes, Lotus Sametime, and ProcessModel process simulation.