

MARY ANN ANDERSON

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA January 1997
Master of Science in Engineering
Thesis: *Analysis of Flexible Assembly Implementation in the Automotive and Aerospace Industries*

General Motors Institute (now Kettering University), Flint, MI June 1989
Bachelor of Science in Electrical Engineering

PROFESSIONAL EXPERIENCE

Director – Supply Chain Management Center of Excellence 2014 – Present

- Responsible for the internal operations of the center
- Primary interface with the students, faculty and staff involved in the Supply Chain Management and Science and Technology undergraduate majors.
- Support the growth of the center through interactions with sponsor companies and the recruiting of additional sponsors.

Principal Consultant – Computer Aided Business Strategies Group 1997 – Present

- Improved clients' design, service, and manufacturing processes focusing on reducing lead time and cost while improving throughput and quality. Techniques employed included, among others, supply chain optimization and six-sigma process improvement methodologies.
- Created robust strategic plans employing group facilitation, scenario planning, war-gaming, and large scale, high-level computer simulation techniques.

Lecturer – University of Texas at Austin 2000 – Present

- Taught introductory operations management course to upper-division BBA students. Content included process analysis, inventory theory, supply chain management, and six-sigma process improvement.
- Taught elective supply chain management classes to upper-division BBA students. Course contents included advanced inventory, logistics, supply chain management strategy and project management.
- Lead MBA and BBA Operations Practicum classes

Research Assistant – Massachusetts Institute of Technology 1995-1997

- Researcher on the Fast & Flexible Manufacturing Project (supported by the U.S. Air Force) that focused on creating improved design and manufacturing processes that could produce low volumes of aircraft with rapidly changing technical requirements. Research conducted revealed that all benefits of production flexibility could be achieved with only 10% fully flexible manufacturing processes, thus drastically reducing required capital equipment expense.

Manufacturing Systems Engineer – General Motors Corporation

1984-1994

- Reduced lead-time and resource costs while increasing flexibility in automotive product development process using lean manufacturing techniques and computer simulation.
- As co-op student, held variety of positions including supervising production employees in an iron foundry, process improvement, and capital equipment specification.

PROFESSIONAL PROFILE

- Expert consultant in building and optimizing business processes, measurement systems, and infrastructure to maximize business results in supply chains and manufacturing and service operations, including electronics, automotive, energy, banking, and multimedia industries. Achieved measurable results that exceeded expectations with clients in the following areas:
 - Streamlined business processes
 - Improved product quality
 - Reduced inventory costs
 - Increased throughput
 - Reduced employee costs
 - Reduced customer lead-time
 - Improved mfg. flexibility
- Skilled expert in developing client firms' strategic plans through facilitation, scenario planning and the development of large-scale, high-level simulation computer models to create robust business strategies. Results have included:
 - Reduced capital expenditure
 - Increased market penetration
 - Reduced customer total cost of ownership
 - Reduced product development time
 - Optimized resource utilization
- Highly ranked instructor (Lecturer at University of Texas at Austin) in all areas of operations and supply chain management, including:
 - Supply chain management
 - Six-sigma process improvement
 - Systems thinking
 - Inventory and logistics management
 - Lean manufacturing
 - System dynamics
 - Project management
 - Service management

OTHER AREAS OF EXPERTISE

- Discrete event computer simulation
- Statistical analysis
- Design of experiments
- Mathematical optimization
- Forecasting
- Real options analysis
- System dynamics simulation

PUBLICATIONS

Operations Management for Dummies

John Wiley & Sons, 2013

Academic Grants

Operating System 2.0 IAP Research Project: *Advancing Supplier Involvement for Capital Projects*,-