

**Kenneth D. Gulick**  
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**Objective:**

**To secure a position with a high level of responsibility working in a position to assisting a team in directing them to the success completion of given tasks, using unique methods of motivating people in a positive, trusting way in all forms of technologies.**

**Work Experience:**

**Sr/Lead Industrial/Manufacturing Engineer – Curtiss/Wright Jan 2006 - AUG 2011**

Lead engineer for the transfer of various designs to the manufacturing floor, military (Raytheon, BAE, Textron) and medical (Haemonetics) ultrasonic sealing applications, with development and training (process instructions) for manufacturing. Work involved teaching/training of floor people, design and creation of all necessary tooling for assembly and reporting to the Director of Engineering with various progress reports. Solid understand of mechanical and plastic designing. Daily management of machine shop operations. day to day management of entire box build cell operations, 5S audit manager, plus instructor for training session in the ISO 9002 and 13485 . GEM (going the extra mile) awards issued in 2011 and 2008 for outstanding performance in meeting project goals. Developed work instructions for the manufacturing floor based on the customer, L-3 Com. (transmission assembly), Haemonetics (medical products), Raytheon, BAE and Textron (gear assemblies and control enclosures for military) inputs, PFMEA. Included CCA and box build, with direct training of floor personnel. Design and build of all fixtures necessary for build. Developed written protocols for incoming QA. The process of validation using IQ, OQ and PQ routinely. Complete WOMB to TOMB project responsibility.

**Manufacturing planning – Dometek, Inc., Fitchburg MA June 03-Dec/05**

Managed the renovations of a closed 100 year old factory, and created all the manufacturing procedures and policies as was required to bring this company from a \$1.5m company to a \$10m company. Successfully completed task in five months, completing all the necessary policy statements and manufacturing procedures on time. Plastic molding and DVD/CD packaging machines are now being built/reconditioned on time and on budget, shipping to 43 countries through out the world. Reviewed, rebuilt various machines for DVD/CD replication lines. Work involved flow valves, hydraulics and pneumatics, electronics and electronics for robotics, molding machines and packaging equipment. Set up the operations and developed process plans and reports.

**Contract Manufacturing Engineer – L-3 Comm., Peabody, MA Aug 01-Mar/03**

Contract to L-3 Communications to support on-going and new bomb detect devices for airport security. Review quality issues and develop corrective action plans for an existing bomb scanner. Over saw the new development and manufacturing start-up for the new enhanced explosive detection system (EDS) and the software interfaces between the computed tomography subsystem (CT) and the image analysis subsystem. Created, maintained and collected SPC data on all scanners. Product designed to detect explosives contained in airline baggage using multi row single energy CT. Review existing design, supply inputs for improvements, inspected incoming parts to meet specs and FAA requirements, ran/adjust scanners to meet FAA demands, run and adjust s/w for the scanner, and sign off on all airport scanners (455 total units). Gears design, electrical and electronics were major focuses.

**Manufacturing/Engineering - CTS Interconnect, Londonderry, NH June/00-March/01**

Worked with a company from Scotland (Contract box and harness/cable/module build Manufacturer) to duplicate a development engineering and process manufacturing similar to the parent company in the U.K. Successfully put in place the systems, tools and personnel to perform these functions, on time and on budget using the lean manufacturing strategy as defined by Scotland. Departments I had responsibility in, Test Engineering, Manufacturing Engineering with strong focus on DFM/DFT, Project Engineering, Documentation Center and SMT Lines as well as managing box/enclosure builds from the raw enclosure to a complete assembly. My last major assignment was to transfer all the manufacturing operations from Hudson to two new buildings in Londonderry, N.H. Operations included the Manufacturing, Quality and Engineering staffs. This required extensive documentation and flow charts to insure proper re-installation with the focus on lean manufacturing. Plant was ISO certified and manufacturing was Six Sigma. Prototyping, designed (auto-cad) and built test fixtures (Gen Rad bed of nails), pilot runs with customers. Built products from customer's specifications including building/set up of production lines and the test areas.

**Lead Manufacturing Engineer - STEREO LINK.COM, Cambridge, MA** Jan/00-June/00

Developed the manufacturing, purchasing and engineering operations for a startup company focused on new products in the field of acoustics for MP3. Operations were well in progress within seven (7) weeks. Responsibilities included all of Manufacturing and Development Engineering. Created MFG lines from the first to the last steps, including all necessary fit-up from an empty warehouse. Designed (auto-cad), prototype, build, set up manufacturing line and tested product to meet all safety agencies. Products were acoustical amplifiers for the computer markets.

**Senior Mfg Engineer - American Digital Systems, Inc., Sudbury, MA** 1998-Aug/1999

Total responsibility for manufacturing of tape/disk products. My duties included the total financial (P & L) for all of Manufacturing Operations/Facilities using skills of DFM/DFT on new and existing products. Responsibilities for personnel, including salary reviews, Personnel reviews and hiring. Developed new products and cost reduced existing products. Complete WOMB to TOMB project responsibility. Responsible for JIT manufacturing flow of all box and cabinet enclosures. Set up manufacturing lines/process sheets, managed both manufacturing and engineering to refurbish/rebuild former Digital Industrial controllers.

**Digital Equipment Corporation, Maynard MA**

To Aug/1998

**November 1988 to November 1998: Engineer - Design Group**

Responsible for the Complete Power and Packaging Development of all Digital's STORAGE products, including the staffing and training of the entire staff. Tasks included guidance of approximately 20 direct reports, as well as direct involvement in designing, testing, building, documentation and manufacturing start up using my skills with DFM, DFT and DFX. Duties included total P & L responsibilities. Working knowledge of PRO-E (version 17) as well as some AutoCAD (rev 20). Tasks included duties in CNC machine shop and engineering/manufacturing labs, building fixtures and other needs for the floor. Helped develop/set up manufacturing lines in Singapore and Hong Kong for box and full cabinet enclosures and assemblies. Consulted with Marketing (created design specs), Design Product (PRO-E), Manage Team including h/w, s/w and support engineers. Tested prototypes, presented prototypes to management, \*tested product for UL/CSA/VDE standards, built the necessary test gear, release product/documentation to production, conducted all design reviews. Complete WOMB to TOMB project responsibility. Products included INDUSTRIAL CONTROLLERS, High and Low end storage systems for computer controls. Also, technical marketing support for four major account, Chevron, Exxon, Dow and Dupont

**18 Months: Mechanical Engineer**

Responsible for the Hardware Development Group within the Personal Computer Organization. Primary assignment was to staff the entire engineering organization, to create, develop and ship the Personal Computer Products for Digital Equipment. Involvement ranged from direct design responsibility, to maintaining budgets, and doing all work schedules and personnel reviews for up to 60 individuals.

**2 Years: Project Lead**

Performing duties in the design, development and analysis of computer products and computer system. Proposing and sale of various new ideas to the engineering organizations and guiding these ideas to a final product, as well as, directing the team(s) in the technical direction. New product intro included MFG lines configurations.

**2 Years: Technical Lead Engineer**

Advanced Printer Technologies Group, presenting to the Corporation the latest printer technology and where it is going. Educate and train the Manufacturing Engineering Staff to these and related issues. Heavy involvement in the pricing of products and understanding the competition. Considerable travel was required to visit other manufacturing companies and to attend trade shows and symposiums. Worked a corporate proposal for start-up of new, low cost manufacturing plant.

**18 Months: Program Manager**

Value Engineering Group, for the Terminals Manufacturing Group. Established the value engineering methodology within TMG by utilizing the process on two selected projects and then leveraging off this experience to influence other engineering groups to utilize this process.

**23 Months: Senior Manufacturing Engineer**

Product support of all mechanical, power and modules for the Terminal Engineering Group. Responsibilities included influencing the design to insure Design for Manufacturing (DFM) as well as DFT by establishing "plant partners" for involvement throughout the design process. Also, providing up-front cost studies for trade-off analysis. This required many interactions with people from various backgrounds. Responsible for the manufacturing line flow and detailing the processes.

**16 Months: Technical Marketing Support Specialist**

Real-time unit with total responsibility for technical and marketing support services to customers, field organizations and the Industrial Products Engineering Group. Work involved training of new sales people, presentation to new and existing customers, new product proposals based on inputs from customers, configuring systems for new and existing customers.

### **To 1998**

Technical author for Working Group SP71 (Environmental Standards for Industrial Control Equipment), Instrument Society of America (ISA). Chairperson of Committee SP71 since 1985. Wrote and published several standards for environmental conditions for process control equipment, including valves, controllers and high-pressure vessels in line with ISA procedures.

### **Additional Experiences:**

- Mechanical design layout/DFX
- Tolerance studies
- Cost reduction on products
- Oversee drafting individuals and technicians
- Coordinate with production on ordering parts
- Interviewed vendors
- Coordinated with other engineering groups to make sure our products match with Company standard
- Conducted and prepared vendors surveys
- Prepared Lean mfg lines
- Heat and air flow calculations and tests
- Investment casting technology
- Sand casting technology
- Prepared and implement build plans for box builds from raw material to final test.
- Plastics design and development
- Stress calculations and tests
- Travel to production plants
- Maintained all safety procedures and records for the MFG plants.
- Maintain project budgets
- Visited with vendors
- Design, implementation and final checkout of new high density circuit board system
- Working knowledge on CNC machines, Bridgeports, lathes, etc.
- SMT Repair lines
- Working knowledge and planning for JIT manufacturing
- IQ/OQ/PQ
- Working knowledge of various shipping procedures and methods...

### **Education:**

Franklin Institute, Boston MA  
ICS, Scranton, PA  
MIT, Cambridge, MA

BSME  
ME General Courses  
Thermal Studies

### **Company Sponsored Courses**

Project Management Skills  
Advanced Management Skills  
Effective Project Management  
Specialty Sales Training  
Manufacturing Industry Orientation  
Multicultural Awareness  
Value Engineering Techniques for Manufacturing  
ISA SP71 Environmental (Industrial) Committee (Chairperson)

### **Awards:**

United States Patent, October, 1995, #5,462,350  
United States Patent, May, 1995, #5,417,012  
Corporate Recognition Awards, 1989, 1990, 1991, 1992, 1993, 1994, 1995, and 1997  
GEM AWARD (Curtiss Wright) 2008, 2011

### **General Interests:**

House remodeling; President of Youth Soccer League (12 years); coaching sports, rebuilding/refurbishing car/trucks.

