WILLIAM A. LEVINSON, P.E., MBA
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KEY SKILLS AND EXPERIENCE: SUMMARY

- **Leading authority** on Henry Ford's **lean manufacturing system** (now known as the Toyota production system) including its organizational and labor relations aspects.
- **Leading authority** on statistical process control methods for real-world situations that do not follow the traditional assumption of the normal (bell curve) distribution.
- Extensive experience with quality including designed experiments (DOE) and **ISO 9001**

- Registered Professional Engineer (Pennsylvania)
- American Society for Quality: FASQ, CQE, CMQOE, CQA, CSSBB, CRE
- Association for Supply Chain Management (formerly APICS): CPIM
- Society of Manufacturing Engineers: CMfgE
- American Institute of Chemists: CPC
- Institute of Certified Professional Managers: CM
- Author or coauthor of more than 80 trade or technical journal articles.

EDUCATION

- M.S. in Operations Research and Applied Statistics, Union College (night school)
- Master of Business Administration, Union College (night school)
- M.S. in Chemistry and M. Eng. in Chemical Engineering, Cornell University
- B.S. in Chemistry, Pennsylvania State University

CAREER HISTORY: LEVINSON PRODUCTIVITY SYSTEMS, P.C.

**Principal** 2002-

- Coaches clients on **ISO 9001** and performs internal audits.
- Developed and presented workshops and webinars in lean manufacturing, Six Sigma, Theory of Constraints, design of experiments (DOE), acceptance sampling, measurement systems analysis (MSA), corrective and preventive action (CAPA), failure mode effects analysis (FMEA), and also ISO 14001 (environmental management systems) and ISO 45001 (occupational health and safety management system).
- **Book publications through Taylor and Francis/ Productivity Press**
  - *Reshore Production Now: How to Rebuild Manufacturing and Restore High Wages, High Profits, and National Prosperity in the USA*.(2023)
  - *Short-Run SPC for Manufacturing and Quality Professionals* (2022)
  - Ford, Crowther, and Levinson: *The Expanded and Annotated My Life and Work: Henry Ford's Universal Code for World-Class Success* (2013)
  - *Lean Management System LMS:2012: A Framework for Continual Lean Improvement* (2012)
  - *SPC for Real-World Applications* (2011)
  - *Beyond the Theory of Constraints* (2007)
  - *Henry Ford's Lean Vision: Enduring Principles from the First Ford Motor Plant* (2002).
- Speaker at national quality and productivity conferences:
  - Keynote speaker at Boeing's lean enterprise conference (April 2003) and International Conference on ISO 9000 and TQM (Scranton, April 2010)

    - TOC World, ASQ World Conference, UBI Quality Expo, Automotive Industry Action Group Quality Conference, ISO and LSS World Conference
    - Northeast PA Healthcare Reform Task Force (Dec. 2006—2011, end of activity)
- Governor's advisory panel, Quality of Health Care (October 2005—January 2007)
- Society of Manufacturing Engineers' Lean Certification program (June 2005-Oct. 2006)
- **Lean manufacturing training materials for Ford Motor Company** (2003-2004)

HARRIS / INTERSIL/ FAIRCHILD Mountaintop Pennsylvania semiconductor plant
**Staff Engineer** 1993-2001

Provided consulting, analysis, and training for Design of Experiments (DOE) and Statistical Process Control (SPC). Performed internal audits for ISO 9000 and ISO 14000.

- Developed, applied, and published SPC and capability index procedures for manufacturing processes with nonnormal, multivariate, and nested normal distributions.
- Developed and applied statistical methods for dealing with non-capable gages.
- Prepared and presented SPC, DOE, and reliability statistics training for engineers, technicians, and operators. Created and presented safety, ISO 9000, microelectronics manufacturing, and waste reduction training.
- Initiated a project to reduce usage of deionized water.
- Recommended and achieved placement of completed corrective action requests and FMEAs in a searchable record system to support best practice deployment. (This is now required per ISO 9001:2015's clause 7.1.6 for organizational knowledge.)
- Obtained contracts for, wrote or edited, and published 4 books (ASQ Quality Press) under the company name as works for hire.
    - Levinson and Tumbelty, *SPC Essentials and Productivity Improvement* (1997)
    - Levinson (editor), *Leading the Way to Competitive Excellence* (1998).
    - Levinson, *ISO 9000 at the Front Line* (2000).
    - Levinson and Rerick, *Lean Enterprise: A Synergistic Approach to Minimizing Waste* (2002), includes material on the Theory of Constraints and Drum-Buffer-Rope.
    - Contributing author in Rose and Buckley, *Self-Directed Work Teams* (American Society for Training and Development).

PART TIME WORK (in addition to regular employment during this period) 1987-2001

- Editor: health care capitation course material for MGI Management Institute (1996)
- Author: Levinson, text for a self-study course for the Part B (Principles and Practice) chemical engineering licensure exam, MGI Management Institute (1995)
- Instruction of review courses for ASQ certification exams, through Section 209
- Instruction of review courses for the Part B chemical engineering exam

IBM, East Fishkill, NY 1982-1993
**Engineer**

- Developed and published a model for spin-coating behavior of polymer solutions.
- Developed and published a statistical method for reducing measurement costs in a multilayer ceramic manufacturing process.
- Suppression of waste in an inline electrical testing operation.