

WILLIAM A. LEVINSON, P.E.  
6 Lexington Court  
Wilkes-Barre, PA 18702  
570-824-1986 wlevinson@verizon.net

#### 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)
- CPIM, CQE, CMQOE, CQA, CSSBB, CMfgE, CPC, CM
- Author or coauthor of more than 70 trade or technical journal articles, and presentations at national ASQ, Productivity Inc., and Theory of Constraints World conferences.

#### 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-

- Coached clients on **ISO 9001:2008** and performed internal audits.
- Developed and presented workshops in lean manufacturing, Six Sigma, Theory of Constraints, design of experiments (DOE), acceptance sampling, measurement systems analysis (MSA), and root cause analysis
- Regular columnist for *Quality Digest* (January 2011—)
- **Book publications through Taylor and Francis/ Productivity Press**
  - *Risk Based Thinking Handbook* (2015), American Quality Institute
  - 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 (2004, Goldratt Institute)
  - ASQ World Conference (1996, 2000, 2008, 2010, 2011, 2013)
  - UBI Quality Expo (2013)
  - Automotive Industry Action Group Quality Conference (2013)
  - ISO World Conference (2014, 2015, 2016) and LSS World Conference (2015, 2016)
- Northeast PA Healthcare Reform Task Force (Dec. 2006—2011, end of activity)
- Governor's advisory panel, Quality of Health Care (October 2005—January 2007)

- Chair, Northeast PA section of the American Society for Quality (July 2005-Jun. 2007, July 2008-June 2010, July 2012-Dec. 2014); also served as Vice Chair and Treasurer
- 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; this saved about \$200K.
- Recommended and achieved placement of completed corrective action requests and FMEAs in a searchable record system to support best practice deployment.
- 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)
- Principal author: Levinson and Armstrong, Statistical Quality Control chapter in A. Landzberg (editor), *Microelectronics Manufacturing Diagnostic Handbook*, Van Nostrand Reinhold, New York (1993)
- 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.