

- Mentor for IMG Graduate Students**, GE Transportation Systems, Erie, PA; Jan. 2000 – Jul. 2003.
Guided four full-time graduate students' work in IT development, including eServices and infrastructure work with General Electric Transportation Systems. Included on-site and on-campus (recruiting, guidance, etc.) work.
- eServices Lead Analyst**, GE Transportation Systems, Erie, PA; Jun. 2000 – Jul. 2003.
Supported eServices initiatives to enable integrated delivery of product software and software configuration tracking for 5000+ locomotives. Included development of system and software requirements for electronic locomotive performance specifications and automated software configuration health checks.
- Software Process Consultant**, GE Transportation Systems, Erie, PA; Sept. 1998- June 2001.
Supported efforts in software process improvement, including the training and implementation of Formal Technical Reviews, software estimation and tracking, software metrics, TickIT and ISO 9000 support. Included development of web-enabled tools to support process changes, development of in-house standards and templates, prototype modeling. Sept. 1998- June 2001.
- Industrial Trainer**, Erie Insurance Group (EIG), Erie, PA; May-December 2002; March-August 2005.
Provided custom short courses to support department-specific training initiatives:
- *Systems Analysis and Design*, 20-hour on/off-site course primarily focused on UML application for practicing systems analysts. (2005)
 - *Requirements Management for Business Analysts*, 20-hour on-site custom course on requirements elicitation, documentation, modeling, analysis and review techniques. (2002)
- Industrial Trainer**, GE Transportation Systems (GETS), Erie, PA; May 1996-Jun. 2001.
Provided custom short- and long courses to support various GE Transportation Systems initiatives:
- *Formal Technical Reviews*, including long and short courses for reviewers, moderators and readers (1999-2001)
 - *Design for Six-Sigma*, short course on modeling techniques to support DFSS training. Feb. 1998.
 - *Software Testing*, long course focusing on the fundamentals of software testing for embedded systems (1996)
- Mentor for ESGP Graduate Students**, GE Transportation Systems, Erie, PA; Aug. 1997-May 2001.
Guided graduate students' work in embedded software systems (GETS). Aug. 1997-May 2001.

Positions Held (1985-1994):

- Documentation Consultant**, Lumin Corporation, Pittsburgh, PA; Jun. - Sep. 1994.
Produced updated version of the user manual for *Small Scale Ticketing* (SST), Lumin's workflow-management tool. Project involved interaction with development and marketing teams.
- Quality Assurance Engineer**, Formtek, Inc., Pittsburgh, PA; Jun.-Sep., 1992, Mar. - May 1993.
Analyzed, wrote and conducted testing for TIMS document management software. Project involved strong interaction with development team.
- Research Engineer**, Electric Research and Management, Inc., Pittsburgh, PA; Mar. 1991 - Feb. 1992.
Aided in the research for an EPRI literature search on the biological effects of magnetic fields; also consulted on the development of a magnetic field modeling program.
- Knowledge Engineer**, Computer Possibilities, Inc., Pittsburgh, PA; Apr. 1988 - Dec. 1990.
Analyzed, designed, wrote, installed a custom commercial expert system to design 50/60Hz transformers for ShapeIMAG, Tempe AZ. Project involved extensive customer interaction and project management.
- Software Engineer**, Westinghouse D\&ESC, Baltimore, MD; May - Aug. 1987.
Analyzed and converted testing software (ADA) as part of a satellite upgrade program.
- Project Engineer**, Lutron Electronics, Inc., Coopersburg, PA; Jun. 1985 - May 1987.
Responsible for the development of a family of electronic fluorescent dimming ballasts. Emphasis on power electronics and manufacturing implementations.