

Curriculum Vita

of

James E. Peserik, PE, PLS, CFEI, CFII, DABFET

Education:

B.S.E.E., University of Wisconsin, Madison, Wisconsin, 1968.

M.S., St. Joseph's University, Philadelphia, Pennsylvania, 1989.

Graduate studies, engineering, University of Wisconsin, Drexel University, Penn State University.

Fire Science Studies, Montgomery County Community College, Blue Bell, Pennsylvania.

Continuing education pursued through seminars presented by: The Engineer's Club of Philadelphia;

Institute of Electrical and Electronics Engineers; American Society of Metals; State Fire Service;

National Association of Fire Investigators; International Association of Arson Investigators.

Professional Experience:

Independent Consultant - Coopersburg, PA - 1976 to present.

- Responsible for investigation into cause and origin of fires.
- Responsible for investigation into machinery and equipment failures.
- Responsible for investigation into accidents involving machinery and vehicles.
- Responsible for investigation into accidents involving stairways and lighting of stairways and hallways.
- Responsible for investigation into accidents involving lighting of walk areas.
- Responsible for investigation into electrical systems and equipment failures.
- Responsible for safety analyses of equipment, procedures, and systems.
- Responsible for evaluation of cause of roof collapses.
- Retained as expert witness in product liability cases, service liability cases.
- Retained as expert adviser to insurance companies for the purpose of subrogation against manufacturers, contractors, engineers, and architects.
- Provided engineering analysis and reconstruction of incidents involving failures of elevators.
- Provided engineering analysis and reconstruction of incidents involving failures of escalators.
- Provided engineering analysis and reconstruction of incidents involving failures of hoists.
- Provided engineering analysis and reconstruction of industrial and vehicle accidents.
- Surveyed roadways to determine plan, profiles, sight distances, interferences with line of sight.
- Reviewed plot plans to determine drainage and water flow on site.
- Examined buildings for code compliance and indications of mechanical, electrical, structural problems.
- Examined buildings for code compliance in stairways, hallways, and means of egress.
- Evaluated damage to manufacturing plants including pole lines and exterior lighting (including pole mounted lighting and its supports) due to severe storms.
- Designed power distribution systems for computer facilities.
- Designed fire protection systems and security systems for computer facilities.
- Designed parking lot lighting including in-ground supports for light poles.
- Designed microprocessor based HVAC control equipment.
- Designed mechanical and electrical thermostats and thermometers.
- Designed office lighting for renovation of Westinghouse (Lester, PA plant) for electrical contractor.
- Designed electrical power distribution and lighting for municipal sewage pump facilities.
- Designed lighting and power distribution for commercial and industrial facilities.
- Designed life support equipment and controls for sea life support tanks.
- Designed food processing plant.

Independent Consultant - Coopersburg, PA - 1976 to present (cont'd.).

- Prepared real estate subdivisions.
- Prepared specifications.
- Reviewed, approved contractor submittals.

Senior Electrical Engineer, S.T. Hudson Engineers, Inc., Philadelphia, PA, 1980-1981.

- Designed power distribution systems (voltages ranging from 208 volts up to 34 Kilovolts).
- Designed outdoor and indoor lighting systems.
- Designed outdoor lighting system for illuminating a barge terminal utilizing high mast lighting at a reduced height including in-ground supports for lighting poles.
- Designed supports for pole lines to ensure that overhead lines supported by poles did not cause poles to be pulled down due to forces exerted on poles by overhead lines.
- Designed automatic, semi-automatic, and manual control systems.
- Prepared specifications.
- Designed electrical lighting, control, and power distribution for use in explosive and/or flammable atmospheres.
- Reviewed, approved contractor submittals.
- Reviewed, selected equipment for use in projects.

Electrical Engineer, Day & Zimmermann, Inc., Philadelphia, PA, 1974 - 1976.

- Designed computer control systems for continuous process production equipment.
- Designed control systems for hazardous (explosive, flammable and toxic) areas.
- Designed power distribution for hazardous areas.
- Designed lighting systems for hazardous areas.
- Designed lighting systems for industrial plants.
- Designed power distribution for industrial plants.
- Prepared and reviewed technical manuals for computer, communication, and control systems for military equipment.
- Reviewed and evaluated railroad signaling and communications systems.
- Prepared operating and safety instructions for weapons demilitarization plant including preparation of specific warnings for hazardous areas.

Project Engineer, Harris-Intertype Corp., Easton, PA, 1972 - 1974.

- Designed machines for assembling books and magazines.
- Designed machines for conveying and stacking books and magazines.
- Designed automated addressing and mailing machinery for book binderies.
- Designed computer controlled bindery system which would personalize a magazine according to subscriber's geographic and demographic information.
- Designed and located warnings for hazardous areas of machinery for purpose of protecting operators and service personnel.
- Designed guards and interlocks to prevent operation and/or cycling of machinery when personnel would be at hazard.
- Designed pneumatic control systems for machinery.
- Supervised field installations, retrofits, and repairs. Supervised all trades (electricians, machinists, pipe fitters, welders, etc.).

Product Engineer, ITE Imperial Corp., Ardmore, PA, 1971 - 1972.

- Prepared technical applications literature on industrial control products.
- Prepared technical brochures on industrial control products.
- Instructed ITE's personnel and customer's personnel in applications of products.
- Instructed ITE's and customer's personnel in codes that are applicable to ITE's products.

Development and Instrumentation Engineer, Square D Company, Milwaukee, WI, 1968 - 1971.

- Designed and supervised construction of a high power test facility.
- Designed and supervised construction of a metrology laboratory.
- Performed basic magnet research.
- Performed materials compatibility studies.
- Performed materials strength studies.
- Performed materials failure studies.
- Trained new engineers in designing products to meet applicable codes and safety requirements.
- Designed nameplates and safety literature to protect and inform users of equipment.
- Designed electro-magnetically operated equipment.

Teaching:

- Graduate Teaching Assistant - University of Wisconsin-Milwaukee
 - Laboratory courses in digital computer programming.
- Graduate Teaching Assistant - University of Wisconsin-Milwaukee
 - Laboratory and Lecture - course in analog computer theory and application.
- Instructor at University of Wisconsin-Extension - Industrial Controls course.
- Undergraduate Teaching Assistant - University of Wisconsin - Electrical Engineering Computer Laboratory course.
- Undergraduate Teaching Assistant - University of Wisconsin - Engineering Mechanics Laboratory course.
- Guest Lecturer - Montgomery Cnty Community College - Fire & Arson Inv. Course, Sept., 1991.
- Guest Lecturer - DeSales Univ. - Prof. Ramsland - Forensics course - forensics engrng, Feb., 2004.
- Guest Lecturer - DeSales Univ. - Prof. Sproule - Criminal Justice course - Arson Inv., Feb., 2005.

Professional Societies and Offices Held:

- Member, Institute of Electrical and Electronics Engineers.
- Member, National Society of Professional Engineers.
- Member, Pennsylvania Society of Professional Engineers.
- Member, External Affairs Committee, Delaware Association of Professional Engineers.
- Member, National Fire Protection Association.
- Member, National Association of Fire Investigators.
- Member, International Association of Arson Investigators.
- Diplomate, The American College of Forensic Examiners
- Chairman, Computer Chapter, Lehigh Valley Section of the Institute of Electrical and Electronics Engineers (1998 to present).
- Past Member, American Society of Metals.
- Past Secretary of the Industry Applications Society of the Philadelphia chapter of the Institute of Electrical and Electronics Engineers.
- Past Chairman of the Industry Applications Society of the Philadelphia chapter of the Institute of Electrical and Electronics Engineers.

Professional Registration:

- Professional Engineer - Delaware, Certificate No. 5891
- Professional Engineer - Pennsylvania, Certificate No. 18911-E
- Professional Engineer - Wisconsin, Certificate No. E-20011
- Professional Land Surveyor - Pennsylvania, Certificate No. 675-A
- Engineer-in-Training - Wisconsin, Certificate No. ET-6145

Miscellaneous :

- Past Member, Tylersport Volunteer Fire Company - Active firefighter - 13 years.
- Past Member, Lake County, Florida Fire Service - firefighter - 10 years.
- Past Treasurer of the Salford Township Park and Recreation Commission.
- Certified computer equipment repairman.
- Certified Fire and Explosion Investigator, Certificate No. 2515-493.
- Certified Fire Investigation Instructor, Certificate No. 2515-493-I.
- Certificate in wildfire fighting and investigation, PA Bureau of Forestry, March, 1980.
- Certificate in military aircraft firefighting, Sept., 1986.
- Certificate - firefighting, State of Florida, Sept., 1988.
- Certificate - Emergency Vehicle Operator, State of Florida, March, 1990.
- Certificate - Determining the Cause & Origin of Fires & Explosions, National Association of Fire Investigators, Sept., 1987.
- Certificate - Disaster Planning & Management, St. Joseph's University, May, 1988.
- Certificate - Fire & Arson Investigation, International Association of Arson Investigators, Fla. Chapter, Jan., 1990.
- Certificate - Determining the Cause & Origin of Fires & Explosions, National Association of Fire Investigators, Aug., 1991.
- Certificate - The National Fire, Arson, and Explosion Investigation Training Program, Eastern Kentucky University, Aug., 1991.
- Certificate - Mathematical Computer Fire Modeling, National Association of Fire Investigators, July, 1994.
- Certificate - Determining the Cause & Origin of Fires & Explosions, National Association of Fire Investigators, July, 1994.
- Certificate - Determining the Cause & Origin of Fires & Explosions, National Association of Fire Investigators, July, 2000.
- Certificate - Electrical Fire Investigation, Public Agency Training Council, Sept., 2003.
- Certificate - Fire Protection - Real World Applications, National Training School, Oct., 2004.
- Patent for an automated press-to-bindery connection.
- Past Member, Advisory Council, Swenson Skills Center (a Vo-Tech school), Philadelphia School District.
- Published article: "The Case of the Conduit That Wasn't Continuous, EC&M magazine, Sept., 2005
- Listed in 2nd , 3rd, 5th, 6th editions of Who's Who in Science and Engineering.
- Listed in 12th through 22nd editions of Who's Who in the World.
- Listed in 51st through 59th editions of Who's Who in America.