Curriculum Vitae

Mark E. Podany

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Education

B.Sc., Physics, Case Western Reserve University, May 1981.

Professional Experience

April 1989 to present:

President, PGM Diversified Industries, Inc.

Responsible for daily operations, product and software design, development and testing, systems development and testing.

Forensic engineering and failure analysis

- Specializing in electrical failures, electrocutions, electrical explosions and electrical fires.
- Electrical trauma analysis
- Experience with distributed industrial electric control systems
- Experience with industrial, commercial, utility and residential electrical systems
- Experience with industrial, commercial and residential electrical equipment and appliances
- Component failure analysis
- Experienced with various analysis techniques such as SEM, SAM/AES, EDAX and ESCA
- Familiarity with NEC (National Electric Code), various UL and OSHA standards
- Generation of interrogatories and deposition questions
- Expert witness testimony
- Expert witness for both plaintiff and defense work
- Generation of litigation support materials including displays and models
- Attorney education
- Work has included both bodily injury/death and material loss cases
- 30+ years experience with civil litigation with a 95% success rate

January 1987 to April 1989:

Staff physicist, Analex Corporation for NASA Lewis Research Center, Space Electronics Division, Electron Beam Technology Branch.

Responsible for development of a near-millimeter (NMMW) wave test environment for the testing of materials and components for use in the Backward Wave Oscillator tube development program.

December 1985 to April 1989:
President (part time) and co-founder of PGM Diversified Industries, Inc.

Co-designed the SP-1 smart paper tape punch system for use in conjunction with CNC machine tool equipment.

October 1981 to August 1986:
Research Engineer, Department of Electrical Engineering and Applied Physics, Case Western Reserve University, Cleveland, Ohio.

Responsible for the system development, system maintenance, electrical system and lighting design, meteorological instrumentation, and data acquisition and analysis of a near-millimeter wavelength atmospheric propagation project performed at NASA Plumbrook Station in Sandusky, Ohio.

May 1981 to October 1981:
Research Engineer (temporary), Department of Electrical Engineering and Applied Physics, Case Western Reserve University, Cleveland, Ohio.

Assisted in proposal writing/research, electronic heterodyne holography and refurbishment of an argon ion laser system to be used in photoacoustic spectroscopy studies.

Letters Patent

Available upon request

Publications:

Available upon request

Continuing Education:
"Coal Processing Facility Hazard Training", Leslie Resources, Inc., Hazard, KY, September 29, 2003.

"Investigation of Gas and Electric Appliance Fires", Fire Findings Laboratories, Benton Harbor, MI, November 14-15 1998, tested and passed.