

## Paul Wm. Hansen | Principal Electrical Engineer, P.E.

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### Professional Summary:

Mr. Hansen has more than 46 years of experience in electrical engineering, with the last 34 years specifically in forensic electrical investigations. These investigations include electrical incidents leading to hazardous conditions, fires, and electrocutions. He has also been engaged in energy studies, design, and project supervision, as well as designing electrical drawings and writing electrical specifications for construction. Mr. Hansen has performed services for various client organizations including insurance companies, insurance investigation firms, adjusting companies and law firms. He has also interfaced with government agencies including the Department of the Navy, Department of Energy and the Illinois, Minnesota and Wisconsin State Fire Marshal.

### Licenses and Certifications:

Professional Engineer, Illinois #062-040463

Professional Engineer, Wisconsin #29097

Professional Engineer, Iowa #22623

### Project Experience:

#### **Globe Engineering, Inc., Chicago, IL Plant expansion of a Kraft Cheese plant**

Responsible for electrical design, specifications, and drawings for a plant expansion in a Kraft Cheese plant

#### **Globe Engineering, Inc., Chicago, IL Plant expansion of a Pork Processing plant**

Responsible for electrical design, specifications, and drawings for a plant expansion in a pork processing plant

### Professional Experience:

EFI Global (formerly INS Investigations, and Engineering and Fire Investigations), Forensic Electrical Engineer, 1994 – Present

Kragh Engineering, Forensic Electrical Engineer, 1984-1993

McMaster Carr Supply Company, Merchandise Manager, 1982-1984

Globe Engineering, Inc., Senior Electrical Engineer, 1980-1982

Commonwealth Edison Co., Electrical Engineer, 1974-1980

United States Air Force, Airborne Communications Specialist, 1970-1974

### Specialized Education:

Throughout his career in Forensic Electrical Engineer, Mr. Hansen has presented seminars on various aspects of forensic electrical engineering from basic electricity through lightning damage.

### Education:

Bachelor of Science in Physics, Purdue University, West Lafayette, Indiana in June, 1970. Thirteen (13) semester credit hours in EE.

Master of Management (MBA) from Northwestern University, 1981. Dual majors in Management/Policy and Finance.

Passed course in Fire Investigation at College of Dupage, fall quarter, 1984.

Passed four graduate-level courses towards Master's degree in Electrical Engineering – University of Wisconsin, Milwaukee Campus, September, 2004 through May, 2006.

### Affiliations:

National Fire Protection Association (NFPA)  
International Association of Arson Investigators (IAAI)  
National Society of Professional Engineers (NSPE)  
Institute of Electrical and Electronics Engineers (IEEE)  
Wisconsin Arson Insurance Council (WAIC)

### Courses Instructed/ Guest Lecturer:

Basic Electricity for Fire Investigators  
Advanced Electricity for Fire Investigators  
Electrical Appliance Fires for Fire Investigators  
Understanding Lightning for Insurance Adjusters

### Publications and Presentations:

Hansen, Paul "Alternator Fires in Vehicles", Fire & Arson Investigator, October, 2011, pp 34-40.

Hansen, Paul "Capacitors and Circuit Board Vulnerability" and "Electrical Switch Failure" Control, vol 111 No. 2 ppf. 44, February, 1990.

**Honors and Awards:**

Sigma Pi Sigma National Honor Society for Physics Students, from Purdue University  
Department of Physics, 1970.