

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

JAMES F. HAHN JR., P.E. Electrical Engineer

PROFESSIONAL EXPERIENCE

1995 to present **Robson Forensic, Inc.**
Associate

Provide technical investigations, analysis, reports, and testimony towards the resolution of commercial and personal injury litigation involving electrical and electronic equipment, crane controls, traffic signals and traffic signal controls.

1994 to present **Engineering Consulting**

Investigate and analyze failures in electrical and mechanical equipment that causes fires, personal injuries and property damage. Experienced in investigating failures in large and small appliances and devices, commercial electrical systems, crane controls, traffic signal equipment and industrial equipment. Apply the NEC and NESC codes to electrical failures that cause property damage and personal injuries. Analyze electrical equipment to determine failure modes and design errors.

1983 to 1994 **Traffic Control Technologies, Inc.,** North Syracuse, NY
Vice President and General Manager

1987-1994

- Responsible for marketing, engineering, sales, quality and financial operations.
- Member of the NEMA Traffic Control Systems Section, holding positions of Steering Committee Chairman and Section Chairman. During this time, the NEMA TS-2 standard was completed and adopted and the NEMA communications standard development was started.
- Promoted the development of a NEMA TS-2 controller and controller assembly.
- Managed the day-to-day operations of marketing, engineering, finance, and manufacturing for an operation of 125 people doing \$15.5 million in sales in the traffic signal and control business.
- Served on the NEMA committee as Section representative.
- Represented the company in numerous litigations.

Vice President of Marketing and Engineering

1986-1987

- Revised sales strategy to emphasize product performance, safety and reliability.
- Managed the development of the next generation traffic signal controller product line using surface mount technology. This product line included a family of "NEMA Plus" conflict monitors and controller assemblies.
- Member of NEMA Traffic Control Systems Section Technical Committee responsible for ongoing work on the TS-1 & TS-2 Standards.

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- Vice President of Engineering and Quality Control* 1983-1986
- Changed company's philosophy on quality control to the "do it right the first time" approach. Provided feedback to production people about quality results from end users.
 - Brought into production a closed loop traffic control system that put up to 24 intersections under central computer control.
 - Introduced CAD into the engineering department and converted the entire engineering operation to a "paperless" process.
- 1974 to 1983 **Crouse-Hinds Traffic Control Products Division, Syracuse, NY**
Manager of Engineering
- Managed Product Development and Applications Engineering staff of 25 people dealing with a line of vehicular traffic signals and controls. Developed a complete line of microprocessor traffic signal control equipment including controller units, controller assemblies, conflict monitors and coordinators meeting the NEMA TS-1 standards.
 - Co-authored a major article on the design of microprocessor controllers for the ITE Magazine. Member of the NEMA Technical committee responsible for the development and adoption of the NEMA TS-1 standards.
 - Responsible for product liability issues including investigation and analysis, depositions, and court testimony.
- 1966 to 1974 **Washington Technologies Associates, Inc., Rockville, MD**
Manager, Engineering Department 1972-1974
- Responsible for the operation of an Electronic and Mechanical Engineering department that developed and manufactured hybrid circuits, VHF transmitters and receivers, satellite instruments and industrial control equipment.
- Senior Project Engineer* 1966-1972
- Designed RF equipment, PCM and FSK equipment, hybrid circuits, active filters, charge sensitive preamplifiers, and electrometers.
- 1963 to 1966 **National Scientific Laboratories, Inc., McLean, VA**
Designed and tested digital communications equipment.
- 1960 to 1963 **Western Union Telegraph Company, New York, NY**
Participated in the installation, evaluation, and acceptance testing of the COMLOGNET system, a computerized digital data-switching network.

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JAMES F. HAHN JR., P.E.
Electrical Engineer

PROFESSIONAL CREDENTIALS

Professional Engineer: New York State

EDUCATION

MBA, Syracuse University, 1983
MSE, The George Washington University, 1968
BSEE, Case Institute of Technology, 1960

Continuing Education:

Electric Power Systems, Syracuse University, 2010
Radio Frequencies and Microwaves, Syracuse University, 2008
Software Radio Design Principles, Syracuse University, 2005

PROFESSIONAL ASSOCIATIONS

Institute of Electrical and Electronic Engineers
Institute of Transportation Engineers

SUMMARY OF DEVICES

| | |
|---|--|
| Computer systems | Microwave control systems |
| Microprocessor systems | Optical systems |
| Wire and radio communications systems | Infrared control systems |
| RFI/EMC testing & design consulting | Infrared communications systems |
| Satellite instrumentation | GFI devices |
| Hybrid circuits | Traffic signal controls and systems |
| Crane and lift controls | Conflict monitors for traffic signal devices |
| Crane carrier current systems | FSK controls for traffic control devices |
| Remote controls for nuclear source containers | Radio controls for traffic signal controls |
| Radio control systems | Traffic signals |
| Radio transmitters | Pedestrian signals |
| Radio receivers | Plastic structural designs |
| Microwave communication systems | Digital and analog electronic circuits |
| Large and small appliances | Residential electrical systems |
| Commercial electrical systems | |