

# Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

## NORMAN W. JOHANSON Product Design & Manufacturing

### PROFESSIONAL EXPERIENCE

- 1995 to present **Robson Forensic, Inc.**  
*Associate*  
Provide technical investigations, analysis, reports, and testimony for failure analysis, and towards the resolution of commercial and personal injury litigation involving product liability or mechanical and industrial accidents.
- 1992 to 1995 **NJ Technology** (Product Design and Development)  
*Engineering Manager*  
Product development for the consumer products, pharmaceutical, medical and semiconductor process equipment fields. Prepare feasibility studies; bid document preparation; bidding and client negotiation; program management; financial administration.
- 1991 to 1992 **Materials Research Corporation** (Semiconductor Process Equipment)  
*Manager of Manufacturing Engineering*  
Managed engineering functions related to production of complex semiconductor process equipment. Responsible for: facility design, maintenance and major upgrade work; specification development; contractor negotiations; document preparation; factory safety inspection; drawing preparation, revisions and maintenance; support of field engineering; new equipment startup.
- 1988 to 1990 **EMCORE Corporation** (Semiconductor Process Equipment)  
*Development Group Manager*  
Handled all product development. HazMat trained; worked with variety of toxic and flammable chemicals in solid, liquid, and gaseous form. Responsibilities included: monitoring contaminant levels during equipment operation; contaminant cleanup; safety engineering.
- 1984 to 1988 **S.F. Products Corporation** (High-Temperature Research Equipment)  
*U.S. General Manager*  
Designed and produced high temperature equipment. Reviewed safety issues, and developed hazardous gas handling, thermal safety shields, and electrical interlock controls for equipment
- 1981 to 1984 **Farberware** (Appliances, Housewares, and Cookware)  
*Director of Engineering*  
Design and development of consumer and commercial appliances, housewares, and cookware; developed production safety testing equipment; oversaw equipment updating, safety device installation and safe operating practice training; worked closely with customer service in reviewing field failures, safety issues, and litigation;

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- developed specialized functional and safety testing methods. Company representative to Cookware Manufacturer's Association; participated in industry-wide reviews of product and manufacturing process safety issues such as carpal-tunnel syndrome and toxicity of painting and enameling compounds.
- 1977 to **Exxon Enterprises, Inc.** (Ink Jet Printing Equipment)  
1981 *Electro-Mechanical Department Manager*  
Managed engineering, design, and fabrication of office and computer peripheral products. Developed production methods and equipment for production of complex printer products.
- 1974 to **Appliance Heater Corporation** (Heater and Heating Elements Production)  
1977 *Operations Manager*  
Developed custom machining equipment, performed all machining, stamping, forming, and thermal processing operation on steel, copper alloy, aluminum, and high temperature metals. Performed powder fill, compaction, and sealing processes. Performed failure analysis work.
- 1971 to **Hamilton Beach, Div. of Scovill Mfg. Co.** (Small Household Appliances)  
1974 *Engineering Project Manager*  
Responsible for design, development, and product line engineering of appliance products. Conducted "Reverse Engineering" evaluation of competitive appliances. Tested products under normal and abnormal conditions to ascertain safety and reliability. Developed and supervised product test procedures.
- 1965 to **The Kanthal Corporation** (Wire Products and Heater Manufacturing)  
1971 *Laboratory Engineer*  
Managed application engineering, product testing, failure analysis, customer support, and metallurgical evaluation functions. Chemical testing and control of descaling, etching, brightdipping, and wire coating baths. Set up thermocouple calibration facility. Participated in American Standards & Testing (ASTM) committee activities.
- 1959 to **Zell Products Corporation** (Hermetic Sealing Semiconductor Packaging)  
1965 *Inspection Dept. Supervisor, Project Engineer, R&D Engineer*  
Supervised Inspection Department, conducted process development on glass- and ceramic-to-metal sealing operation, participated in ASTM committee standards work, designed new products and conducted scientific studies of oxide formation, glass formulation, and alloy customization for optimum sealing performance.

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### PROFESSIONAL CREDENTIALS

Certified Manufacturing Engineer in the field of Product Engineering for Manufacturing by the Society of Manufacturing Engineers, 1977

Private Investigator: New Jersey, New York, West Virginia, Pennsylvania

### EDUCATION

Bridgeport Engineering Institute, Bridgeport, CT - B.S., Mechanical Engineering, 1973

Hawthorne School of Aeronautics, Moultrie, GA - Completion Certification, 1959

*Many Continuing Education programs, including:*

Concurrent Engineering	Cluster Tool Technology
Computer-Aided Design	Fukuda Techniques
Interactive Management	Investigation of Gas and Electric Appliance Fires
Product Development	Statistical Process Control
Theory of Constraints	Total Quality Management
ISO-9000	Quality Assurance
Vacuum Technology	HazMat Training
Presentation Techniques	Business Law
NFPA 921	

### PROFESSIONAL AFFILIATIONS

American Society of Mechanical Engineers  
American Society of Safety Engineers  
American Society for Metals  
National Fire Prevention Association  
Society of Manufacturing Engineers  
Society of Fire Protection Engineers  
Pennsylvania Association of Arson Investigators