

Curriculum Vitae

Frank E. Gomer, Ph.D.

Gomer Consulting Group
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Professional Experience:

Summary

- Over 28 years of standards- and regulations-driven experience in applying safety engineering methods to:
 - Product design, development, manufacturing, safety testing, certification, and installation (aircraft systems, custom truck applications, mail processing equipment, machining centers and machine tools, and interactive computer systems used in schools, hotels, ships, and trains).
 - Premises design and maintenance (electric power generating plants).
 - Accident prevention, including safety-related warnings and instructions.
 - Over 20 years of experience in providing safety and human factors engineering services to attorneys in products liability and premises liability cases. Very effective in explaining complex technical facts to the jury. Qualified as an expert witness in federal and state courts.
 - Work-related injuries - slips, trips, and falls in buildings, on walkways and ramps, and on stairs; machine tools, machining centers, process equipment; injection molding equipment; power presses; balers; shredders; clamping devices; conveyer systems; blast furnaces; aircraft hangers; oil rigs; solvents; sealers; forklift trucks; front-end loaders; scaffolding; falling objects; dyes; lighting systems and lamps; mining equipment; farming equipment; mortar mixers; ladders; and power tools.
 - Personal injury accidents - slips, trips, and falls in buildings, on walkways, on decks, in store aisles, and on stairs; aircraft; automobiles, jeeps, and trucks; automobile jack stands; motorcycles; snowmobiles; trains; bicycles; swimming pools; lawnmowers; ladders; scaffolding; security fencing; home fire extinguishers; fireplaces; heaters; drain cleaners; solvents; over-the-counter drugs and cosmetics; household products; sports equipment; parking garages; auto repair facilities; offices; public buildings; roof construction and coverings; retail stores; merchandise displays; and playground equipment.
 - Occupational diseases - cancers attributed to asbestos, radiation, and chromium exposures; and repetitive movement disorders attributed to keyboard and materials handling tasks.
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<http://www.gomerconsulting.com>

- **1986 to Present: President**

Dr. Gomer provides technical litigation support to plaintiff and defense attorneys and their clients. He has provided safety and human factors engineering testing, analysis, and expert testimony in personal injury and wrongful death cases. These cases, involving occupational diseases, as well as traumatic injuries sustained in the home, in the workplace, in public facilities, and in association with transportation, typically have included products liability or premises liability issues. Engineering aspects of these cases have involved: accident reconstruction; reasonableness of product design and manufacturing; adequacy of facility or premises design and maintenance; adequacy of safety-related training, instructions and warnings; effectiveness of engineering controls and safeguards; reasonableness of human behavior; comprehensiveness of foreseeability analyses; risk versus utility analyses; and the role of human vision and decision making in accidents. Dr. Gomer also has provided expert analysis and testimony in breach of contract and breach of warranty cases. Finally, Dr. Gomer has provided workplace testing, engineering analyses, and expert testimony in national-level arbitrations involving job classification disputes, as well as work and time standard disputes.

Dr. Gomer also assists clients in evaluating new equipment system solutions for their operations, by examining productivity gains, increased system availability, and improvements in safety features. A particular focus has been the application of systems and human factors engineering principles in facility, equipment, and job design. Dr. Gomer has worked with the electric utility companies to improve plant and system safety practices, through the application of comprehensive hazard analysis and hazard control methods. He has completed many projects for the American Postal Workers Union, dealing with new design and redesign of computer-based mail processing systems utilized by the US Postal Service, as well as with implementation of OSHA-mandated medical monitoring and safety practices. He worked with Milacron Corp. to improve point-of-operation guarding and safety-related instructions for machining centers. He also worked with Interpipe Equipment, to improve product development and manufacturing methods associated with custom trucks applications, and with Famous-Barr, a division of the May Department Stores, to improve merchandise display methods. Finally, Dr. Gomer developed color display formats, operator procedures, and error management techniques for medical monitoring equipment manufactured by Gould, Inc.

The Network Connection, Inc. (TNCi)

- **1999 to 2000: President and Chief Operating Officer and Member of the Board of Directors**

TNCi provides hotels, time-share properties, and educational institutions with current news, information, and entertainment content, including Internet access, via its high-speed, broadband interactive systems. TNCi designs, manufactures, installs, and provides on-going maintenance and content management support for its fully interactive client/server-based information and entertainment systems. Dr. Gomer had overall accountability for financial management, implementing sales and marketing functions, creating worldwide operations, and developing the right mix of products and services to meet the company's revenue and profit objectives. He also had oversight of all major customer programs, including product safety, from (a) initial hardware and software development, through (b) supplier management, (c) product manufacturing and

safety testing, (d) product delivery and installation, (e) on-site customer support, and (f) acquisition and management of new content.

Global Technologies, Ltd. (Parent Company of TNci)

- **1998 to 1999 – President, Interactive Entertainment Division**
- **1997 to 1998 – Vice President of Engineering, Operations, and Major Programs**

Global Technologies provides fully interactive entertainment systems for passenger trains. These systems deliver broadband multimedia content over high performance client/server networks. Dr. Gomer's responsibilities, in addition to product safety, included: (a) engineering direction and for all hardware and software development and test; (b) direction for all configuration management and quality assurance decisions; and (c) direction for all manufacturing, product safety testing, supplier management and outsourcing, and customer support decisions.

Honeywell, Inc. – Commercial Aviation Electronic Systems

- **1994 to 1997: Director for Electronic Display System Products**

This division is the world's leading supplier of avionics products and services for commercial aviation. Dr. Gomer's responsibilities, in addition to product safety, included: (a) overall accountability for all display products; (b) strategic business planning for all display products, leading to the transition to color flat panel display products and to market dominance for flight deck displays; and (c) engineering and operations direction for all display product improvements and cost reduction activities, as well as for new development programs.

- **1992 to 1994: Program Manager, Next-Generation Avionics Systems**

Dr. Gomer managed engineering and operations teams from Honeywell, Westinghouse, and GEC Marconi, developing new integrated avionics systems.

- **1986 to 1992: Manager, Systems and Human Factors Engineering**

Dr. Gomer managed engineering teams responsible for the development and production of integrated avionics for the Boeing 777 airplane. **Throughout his career at Honeywell, he also was one of the company's principal experts in aviation safety.**

GP Strategies Corporation

- **1982 to 1986: Manager, Systems and Human Factors Engineering**

GP is one of the world's largest technical consulting and workforce development companies. Dr. Gomer and his staff worked with electric utility companies to improve plant and system safety practices and training effectiveness. He also conducted a large-scale, historical review and test of design requirements for warning labels on behalf of the U.S. Justice Department. Dr. Gomer provided technical litigation support to both plaintiff and defense attorneys and their clients. Finally, he directed improvements in the design of warning labels and safety-related instructions for machining centers and machine tools manufactured by Mazak Corporation.

The Boeing Company (Formerly McDonnell Douglas Corp.)

- **1977 to 1982: Section Head, Systems and Human Factors Engineering**

Boeing is the world's leading supplier of commercial jet aircraft. Dr. Gomer was assigned to corporate engineering design groups that developed new flight deck concepts for military and commercial jet aircraft. He also contributed to the development and deployment of a company computer-aided design system.

The United States Air Force, Wright Patterson Air Force Base

- **1974 to 1977: Captain - Senior Human Factors Engineer, Display Engineering**

Education:

Ph.D. Human Factors Engineering and Psychology
Washington University, St. Louis

B.S. Psychology
Colgate University

Professional Affiliations:

- Member, American Society of Safety Engineers
- Member, Human Factors and Ergonomics Society

Publications and Invited Presentations:

There are 40, dealing with such topics as: display system standards and design requirements; human factors engineering considerations in equipment system design and safety; workplace safety; facility design and safety; workstation and job design; job analyses and job evaluations; and the design and testing of safety-related warnings.

Honors and Awards:

- Sigma Xi – National honorary society for excellence in scientific research.
- Appointed to the Vision Committee of the National Research Council for the National Academy of Sciences.
- Appointed Head of the Blue Ribbon Committee of industry leaders, tasked with the responsibility of creating an investment strategy for the complete overhaul of all NASA commercial and military aircraft flight simulation facilities.
- Reviewer of articles submitted for publication to these scientific journals: *Human Factors*, *Ergonomics*, and *Journal of Aviation Psychology*.