

Credentials

Professional Engineer
State of New Jersey

Education

Master of Science in Engineering Science
Rensselaer Polytechnic Institute - 1964

Bachelor of Science in Mechanical Engineering
City College of New York - 1960
(Elected to Pi Tau Sigma Mechanical Engineering Fraternity)

Continuing Education

Human Factors in Engineering and Design - N.J. Institute of Technology
Forensic Burn Training Program - National Burn Victims Foundation
International Symposium on Slip Resistance: The Interaction of Man, Footwear, and Walking Surfaces - American Society for Testing and Materials (ASTM)
Symposium on Metrology of Pedestrian Locomotion and Slip Resistance - American Society for Testing and Materials (ASTM)
Short Course in Elevators and Escalators - American Society of Mechanical Engineers (ASME)

Professional Service Positions

ASTM Committee F13: Safety and Traction for Footwear

Professional Associations

American Society of Mechanical Engineers (ASME)
Building Officials and Code Administrators International (BOCA)
American Society for Testing and Materials (ASTM)

Public Service Positions

Lower Connecticut Valley Association for Retarded Children - Founder
Middlesex Association for Retarded Citizens - Member, Board of Trustees
N. J. Cerebral Palsy Parents' Association - Founder
National Burn Victim Foundation - Vice President, Executive Board, Trustee

Areas of Concentration

Product liability
Machine design
Mechanical engineering
Control systems
Construction sites
Industrial equipment
Consumer products
Facilities design
Building systems
Electrical design
Dynamic analysis
Burn hazards
Fire protection

Premises liability
Safety
Warning & guarding
OSHA compliance
Materials
Thermodynamics
Hydraulics
Metallurgy
Structures
Aerodynamics
Codes & standards
Flammable liquids
Explosive substances

Specific Experience & Interest

Slips, trips and falls
Consumer products
Construction equipment
Garden equipment
Industrial machinery
Industrial furnaces
Commercial ovens
Failure to warn
Guarding
Safety devices
Food processing equipment
Construction site safety
High voltage equipment
Gas-fired equipment
Carnivals and amusement parks
Vehicle accident reconstruction
Elevators and escalators
Workplace accidents
New jersey building codes
New york building codes
Contract administration

Ladders
Scaffolds
Sidewalks
Driveways
Parking lots
Power saws
Portable saws
Stationary saws
Chainsaws
Snowblowers
Lawn mowers
Bicycles
Fasteners
Falling objects
Food preparation
Play grounds
Forklifts
Jacks
Electrocution
Explosions
Fires

Professional Experience

Institute for Products, Engineering & Construction

1995 - Present

Consulting forensic engineering services for attorneys and insurance companies. Services span the fields of product liability, premises liability and construction. Primary disciplines include mechanical engineering, engineering science, machine design, workplace safety and accident prevention.

Consulting Engineer

1990- Present

Operation of a consulting practice in management and engineering. This work has involved extensive safety investigations in product liability, premises liability and forensic analysis.

Electro-Nucleonics, Inc.

1978-1988

Manager, Government Operations. Supervised a group providing engineering development and manufacturing for a wide range of mechanical, electro mechanical and electronic products including a high speed drive motor (DC), acceptance test equipment using optical, vacuum and microprocessor technologies, a range of peripheral equipment supporting high speed centrifuge operations for uranium enrichment and a microprocessor- based demand monitor product line, established a design department with standards and configuration control for a new division, upgraded an ultracentrifuge used to make viral preparations for both research and production purposes (i.e. vaccines). Proposed modifications to the equipment and processes used to manufacture AIDS diagnostic materials which improved product quality by 50%, initiated development of an automated processor for the screening of blood for HIV exposure. Responsible for plant management and security in a factory setting encompassing machine shop, light electronic manufacturing, engineering design and development as well as management operations.

Ammann & Whitney, Consulting Engineers

1969-1978

Senior Mechanical Engineer. Provided design services and program management for major construction projects ranging from airports to munitions plants. Created and managed an interdisciplinary group conducting studies and special projects such as waste heat recovery, life cycle cost analysis and contaminated waste disposal. Conducted studies and analyses such as intractable safety problems at US. Army munitions plants, resulting in significant increase in the safety of munitions manufacture at various plants around the country, availability, reliability & maintainability analyses for facilities supporting radar and missile launch installations. Designed mechanical systems such as HVAC, plumbing, piping and fire protection systems for major installations including aircraft maintenance hangars, airport terminals, factories and special purpose facilities. Responsibilities included participation in the dynamic analysis of structures subject to earthquake and aeolian (wind) loads.

Gourdine Systems

1967-1969

Project Engineer. Involved in engineering design and development in the direct conversion of gas flow energy to high voltage electric power, air pollution control and coatings processes and the management of an R & D facility. Developed a power supply for use as a high voltage DC switch using compressed air as an energy source and contributed to the development of an electrostatic spray gun and was responsible for the management of office, model shop and laboratory facilities. Facilities management included the design, construction, installation and maintenance of interior and exterior facilities and building services.

Curtiss-Wright

1966-1967

Senior Engineer. Design, research and development on gas turbine engines intended for use in both aircraft and ground vehicles. Projects involved mechanical design, aerodynamics, vibration analysis and control & test operations.

Pratt & Whitney Aircraft Corporation

1960-1966

Senior Engineer. Involved in the design and development of a nuclear powered aircraft engine, including development of liquid metal lubricated journal & thrust bearings, turbo pumps handling liquid metals and design of nuclear reactors.

Publications

Author or Co-author of more than 200 Reports and Documents *exclusive* of those produced in support of litigation, in the fields of:

Safety
Machine Design
Facility Design
Site Design

Pump Design & Development
Energy Conservation
Power Generation
Dynamic Analysis