

Education

Postgraduate Studies in Advanced Structural Analysis

Columbia University, 1968

Master of Engineering (Mechanical)

City College of the City University of New York, 1966

Bachelor of Science in Mechanical Engineering

City College of the City University of New York, 1962

Continuing Education programs in Management, Cooling of Electronic Equipment, Nonlinear Vibration, Signal Processing, Tribology, Fracture Mechanics, Vibration Theory and Applications, Bearing & Lubricant Contamination & Filtration, Pump Theory & Applications and Gas Turbine Fundamentals

Professional Associations

American Society of Mechanical Engineers

American Society of Safety Engineers

National Fire Protection Association

Areas of Concentration

Mechanical engineering

Marine engineering

Hydraulics & pneumatics

Heating, ventilation & air conditioning

Machine design

Product testing

Fire causation

Structural design

Dynamic analysis (vibration & shock)

Specific Experience and Interest

Machinery Accidents

Product Testing

Power Plant Design & Operation

Lubrication Systems

Cooling Systems

Hydraulic Systems

Winches & Gear Drives

Fires and Explosions

Fire Alarm & Protection Systems

Fire Extinguishing Systems

Electrical Systems

Subway Cars

Turbines

Diesel Engines

Publications

“U.S. Navy MK 105 Minesweeping System Upgrade Program – Installation of Pratt & Whitney Canada ST6L-813 Turbine”, ASME Paper # 95

Professional Experience

Institute for Products, Engineering & Construction

2001 to Present

Consulting and forensic engineering services for attorneys and insurance companies. Projects involve the disciplines of mechanical, electrical and structural engineering and address machine design and defects, investigation of fires and explosions, and safety concerns in buildings and mechanical/electrical equipment.

EDO Corporation

1966 to Present

Senior Staff Engineer. Responsibilities include senior level project tasks such as system conceptualization and follow through from design phases to manufacturing, test and delivery to the customer. Also provided direction to engineers, designers, technicians and mechanics. Performed extensive component and system testing and failure analyses, including vibration monitoring utilizing FFT spectrum analyzers. Projects include turbine and diesel power plants, motor operated winches, underwater towed minesweeping devices, installation of equipment on New York City Subway cars.

Center Engineering

1994 to Present

Mechanical Engineer. Perform consulting services in the forensic analysis of machinery, diesel and turbine power plants.

Alstom Engineering

1998 to Present

Perform consulting services related to installation of equipment on New York City subway cars.

Instrument Systems Corporation

1965 - 1966

Design Engineer. Participated in design and development of pneumatic and hydraulic devices such as a winch hydraulic control system. Supervised technicians in building hydraulic test equipment.

New York Naval Shipyard

1962 - 1965

Design Engineer. Design of heat transfer and fluid power components and systems. Included were liquid cooling systems, heat exchangers and pneumatic supply systems. Performed thermal and fluid power analyses. Appointed as an alternate instructor in the shipyard Mechanical Drafting Trainee Program. Taught basic engineering principles of fluid systems.