

EDUCATION

- 2014 **Master of Science, Engineering**
Specialization: Environmental Engineering
Rowan University, Glassboro, New Jersey
- 1990 **Bachelor of Science, Mechanical Engineering**
Drexel University, Philadelphia, Pennsylvania
- 1986 **Associate of Science, Engineering Science**
Camden County College, Blackwood, New Jersey
- 1982 **Associate of Applied Science, Mechanical Engineering Technology**
Camden County College, Blackwood, New Jersey

EXPERIENCE

- October 2009
to Present **Engineering Design & Testing Corp.**
Cherry Hill, New Jersey
Consulting Engineer
Root cause analysis of incidents involving machinery, mechanical systems, and plumbing systems in residential, commercial, and industrial applications. Analysis of heating, ventilation, and air conditioning (HVAC) systems and associated control systems. Cost estimation of damage to HVAC and mechanical systems. Energy management and measurement investigations. Conduct residential, commercial, and industrial origin and cause fire investigations, including process equipment, vertical transportation systems, electro-mechanical equipment, storage facilities, printing equipment, petroleum processing equipment, natural gas and landfill gas compressors, and food processing equipment.
- July 2000
to September 2009 **Rowan University**
Glassboro, New Jersey
Director of Facilities
Operations and Maintenance / Resource Management. Physical plant operations, maintenance, custodial, landscape, and engineering for 203+-acre campus consisting of 50+ buildings, 2 million gross square feet, cogeneration and heat central plants in a unionized setting on a \$10-million operating budget with 120+ in-house personnel, including 80+ outside contracted personnel. Energy conservation, management, and planning. Development, implementation, and expansion of information management systems for facilities department. Recycling/waste management, outreach, energy grant/rebate applications.

January 1998
to July 2000

Lord & Taylor
New York City, New York

Regional Engineer for the Mid-Atlantic Region

Centralized and decentralized plant operations, maintenance and engineering, supervision of union, non-union, and contracted personnel and project management for an upscale retailer. Overall management of operations and maintenance of building systems, including boiler plants, energy management, HVAC, fire alarms, elevators, chillers, and utilities. Performance of heating and cooling load calculations for facilities renewal initiatives. Experience working with Andover and CSI building automation systems. Responsible for building, fire, and safety code compliance. Design development, review, and approval of drawings and specifications for major and minor renovations. Developed time and cost estimates for renovations and upgrades. Responsible for managing all aspects of projects, including scope, schedule, budget and commissioning. Exterior projects included façade maintenance and reworking, parking lot resurfacing, exterior lighting upgrades, roof projects, utility, and EIF systems.

August 1994
to January 1998

Rutgers University
Cambde, New Jersey

Assistant Director of Maintenance

Physical plant operations, maintenance and engineering, supervision of union and non-union personnel, and project management in a commercial/industrial multi-facility setting. Overall management of operations and maintenance of building systems. Systems included central boiler plant, cogeneration plant, building automation systems, HVAC, fire alarms, elevators, chillers, and utilities. Performance of heating and cooling load calculations for facilities renewal initiatives. Experience working with Andover and Honeywell building automation systems. Responsible for building, fire, safety, and security code compliance. Design development, review and approval of drawings and specifications for major and minor renovations. Developed time and cost estimates for renovations and upgrades. Responsible for managing all aspects of projects, which included scope, schedule, budget, and commissioning.

October 1984
to September 1994

Drexel University
Philadelphia, Pennsylvania

Operating Engineer (four years)

Manager of Evening Services (two years)

Manager of Building Systems (four years)

Physical plant operations, maintenance, engineering, supervision of union personnel, and hands-on experience in a multi-commercial building complex. Achieved 40% reduction in costs, 43% reduction in accidents, 85% reduction in grievances, and developed CFC phase-out plan. Hands-on experience included HVAC mechanical work, plumbing, emergency generator, and transfer switch maintenance and repairs.

January 1981
to October 1984

Leak Repairs, Inc.
Gibbsboro, New Jersey

Technician

Emergency repair of leaks in industrial settings while systems were under pressure. Pressures ranged from near-full vacuum to 6,000 psig. Temperatures from the cryogenics to 2,000° F. Services included steam, water, acids, volatile hydrocarbons, etc. Worked in Mid-Atlantic and New England regions for various industries, which included utilities, pharmaceuticals, refineries, chemicals, pulp mills, and nuclear power generation facilities.

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- June 1980
to December 1980 **Ormsby's Lawn Equipment**
Williamstown, New Jersey
- Mechanic*
Performed maintenance and repairs to all varieties of lawn care equipment, which included riding mowers, snow blowers, chain saws, trimmers, and log splitters. Diagnosis of engine problems, engine overhauls, and transmission/drive systems.
- September 1979
to June 1980 **Wall and Ochs Optical Corporation**
Glendora, New Jersey
- Maintenance Mechanic*
Performed maintenance and repairs to a variety of machinery utilized in the production of prescription eyewear. Machinery included lens grinders, polishers, and sanitizers, in addition to general building maintenance. Overhauled lens polishing equipment and readied equipment for immediate use to minimize production downtime.

REGISTRATIONS and CERTIFICATIONS

- Registered Professional Engineer in Connecticut (#PEN.0032020)
Registered Professional Engineer in Delaware (#16787)
Registered Professional Engineer in District of Columbia (#PE906401)
Registered Professional Engineer in Maine (#15306)
Registered Professional Engineer in Maryland (#38396)
Registered Professional Engineer in Massachusetts (#53546)
Registered Professional Engineer in New Jersey (#42503)
Registered Professional Engineer in New York (#094381-1)
Registered Professional Engineer in Pennsylvania (#PE077459)
Registered Professional Engineer in Virginia (#0402049750)
Registered Professional Engineer in West Virginia (#19389)
Certified Fire and Explosion Investigator (CFEI #8545)
Class "A" Stationary Engineers License, City of Philadelphia
National Council of Examiners for Engineering and Surveying (#39969)

PROFESSIONAL ORGANIZATIONS

- Alpha Epsilon Lambda – Upsilon Honors Chapter at Rowan University
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
American Society of Mechanical Engineers
ASM (American Society for Metals) International
Cross Keys Honors Fraternity – Drexel University Chapter
National Academy of Building Inspection Engineers
National Academy of Forensic Engineers
National Association of Fire Investigators
National Fire Protection Association

National Society of Professional Engineers
 Professional Engineers Society of South Jersey (President 2010/2011)
 Society of Fire Protection Engineers

PUBLICATIONS

"Tackling Climate Change in Higher Education: One University at a Time," 2008, J. Imperatore, P. Jansson, D. Farish, Journal of the World Universities Forum
 "Assessing Carbon Dioxide Emissions from Energy Use at a University," 2008, J. Imperatore, W. Riddell, K. Bhatia, M. Parisi, J. Foote, International Journal of Sustainability in Higher Education

CONTINUING EDUCATION

2018 *Basic Fatigue Analysis* – EDT
Distributed Energy Webinar – Power
Genset Sound 101 Webinar – Caterpillar Electric Power
How to Implement a High Energy Piping Program Webinar – Power
Metallurgy for the Non-Metallurgist and Its Use in Root Cause/Damage Assessments – EDT
Methods of Equipment Protection – EDT
Understanding PEX in Hydronic Heating and Cooling Applications Webinar – Engineered Systems
Understanding Programmable Logic Controller Language for Forensic Analysis – EDT

2017 *Backup Power Sources: Varieties and Applications* – EDT
Case Studies in Engineering Ethics – EDT
Engineering Analysis of Failure – EDT
HVAC Systems and Managing Power in Commercial Buildings – EDT

2016 *Collection and Preservation of Evidence* – EDT
Commercial HVAC Systems – EDT
Geardrive Fundamentals and Failure Analysis – EDT
Marine, Cargo and Stock Throughput Insurance – EDT
PATfinder Chromatography – BIA Separations
Power System Protection and Fault Analysis – EDT
Sales Training – EDT

2015 *Advanced Fire, Arson, & Explosion Training Program* – NAFI
Anatomy of a Subrogation Case - Fireplace & Chimney Defects – PLRB
Behind the Scenes Mechanical Systems Tour of Adventure Aquarium – ASME
Commercial Arson Investigation Practice Pointers – PLRB
Ethics for Professional Engineers – PESSNJ
Federal Rules of Civil Procedure (FRCP) Rule 26 — Expert Reports – EDT
Glass Fractography – EDT
Handling Ammonia Systems Safely Webinar – Process Cooling BNP Media
Introduction to Outdoor & Specialty Applications AV – System Sensor
Large Water Claims: The New Arson – PLRB
Large-Scale Water Loss Claims Response – PLRB
Modern Data Management for Engineering Investigations — Acquisition, Storage, and Access – EDT
New Tomorrows for Today's Buildings: Existing Building Commissioning – ASHRAE

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- Refrigeration Systems: Who Let the Cold Out? Who? Who?* – EDT
Webinar: ASME B31.3 — Changes for the 2014 Edition – ASME
Whole Building Commissioning to Achieve Performance Goals – Half Moon
- 2014 *Electrical Equipment and Water -- When is Wet Not Really Wet?* – EDT
Life Safety System Design for your Locality – Honeywell Silent Knight
Presentation of Credentials in Litigation – EDT
Products Liability and the Engineer – EDT
Shaking Things Up a Bit – Field of Vibration – EDT
Stormwater & Energy Management – Philadelphia University
Understanding Window and Door Product Approval Evaluations – ASCE Webinar
- 2013 *Filing Rules in a Judicial System* – EDT
Fire Session Panel – EDT
LEED Accreditation and Value in Green Buildings – IFMA
Market Meetings – EDT
Rowan University Combined Heat & Power Plant Tour – PESSNJ
Social Networking and the Consulting Engineer – EDT
Spring Seminar – NJSPE
Tour of Veolia Energy's Grays Ferry Cogeneration Plant – Engineers' Club
- 2012 *Analysis of Plastic Fractures* – EDT
Ethical Challenges for the EDT Engineer – EDT
Fire Technical Session Panel – EDT
How to Avoid Litigation and What to Do if Sued – PESSNJ
Large Loss Scope and Valuation – Techniques – EDT
The Daubert Decision: Where Have We Come Since 1993? – EDT
- 2011 *Consulting Engineering Refresher* – EDT
Dry Boilers – EDT
Improving the Energy Efficiency of Steam Heating Systems – Half Moon
Improving the Energy Efficiency of Steam Heating Systems – Half Moon
Insurance Coverage Issues that Consultants Need to Know – EDT
Restaurant Pre-Engineered Fire Suppression Systems – EDT
Stormwater Management & Erosion Control – PESSNJ
Warnings vs. Instructions – EDT
- 2010 NAFI Certified Fire and Explosions Investigator
- 2009 *Confined Space Training* – National Safety Council
Leadership for Managers – Rowan University
Principles of Failure Analysis – ASM International
- 2008 *Green Building Basics and LEED* – U.S. Green Building Council
- 1992 *CFC Phase-out Planning* – Drexel University
Total Quality Improvement – Conrail Corporation
- 1991 *Underground Storage Tank Management* – Drexel University
- 1984 *Fugitive Emissions Monitoring Course* – Team Incorporated
- 1983 *Steam Trap Application, Testing, and Managing Course* – Spirax-Sarco,
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