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## **EDUCATION**

- 1997                    **Bachelor of Science in Mechanical Engineering**  
The University of New Haven, West Haven, Connecticut
- 1987                    **Associates Degree in Mechanical Engineering Technology**  
Three Rivers Community College, Norwich, Connecticut

## **EXPERIENCE**

- April 2007  
to Present            **Engineering Design & Testing Corp.**  
**Windsor, Connecticut**  
*Consulting Engineer*  
Root Cause analysis of malfunctions involving machinery, mechanical systems, 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. Consultation in fire origin and cause.
- October 1993  
to April 2007        **Johnson Controls, Inc.**  
**Windsor, Connecticut**  
*Project Engineer*  
Designed, programmed and supervised the installation and commissioning of building management systems (specializing in HVAC controls). Coordinated projects with various contractors on-site and with the mechanical engineer of record. Troubleshooting of control systems including third party controllers. Integrated multiple vendors' devices (boilers, chillers, generators, variable frequency drives, lighting, PLC controllers) into common person machine interface. Engineered various large-scale projects of over one million square feet and chiller plants up 13,000-ton cooling capacity. Provided engineering services for educational, government, healthcare, hospitality, life sciences, museum and retail facilities.
- November 1991  
to October 1993    **ECA Environmental Services**  
**East Lyme, Connecticut**  
*HVAC Designer*  
Designed and supervised the installation of design-build air and hydronic HVAC and mechanical systems. Prepared building heating/cooling load estimates. Participated in mechanical equipment selection. Programmed and supervised the installation and commissioning of various building management systems. Coordinated projects with various contractors on-site and with the mechanical engineer of record.

July 1987  
to November 1991

**Eastern Connecticut Air Conditioning  
Old Lyme, Connecticut**

*HVAC Designer*

Designed design-build HVAC and mechanical systems. Prepared drawings of HVAC air and hydronic systems for coordination with other trades. Prepared building heating/cooling load estimates. Participated in mechanical equipment selection. Coordinated projects with various trades on-site and with the mechanical engineer of record. Programmed building management systems.

**PROFESSIONAL ORGANIZATIONS**

American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

American Society of Mechanical Engineers (ASME)

Materials Engineering Institute, ASM International

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

**REGISTRATIONS and CERTIFICATIONS**

Registered Professional Engineer in Connecticut (#0021689)

Registered Professional Engineer in Florida (#77942)

Registered Professional Engineer in Maine (#11491)

Registered Professional Engineer in Massachusetts (#47257)

Registered Professional Engineer in New Hampshire (#12273)

Registered Professional Engineer in New York (#85243-1)

Registered Professional Engineer in Pennsylvania (#075619)

Registered Professional Engineer in Rhode Island (#8847)

Registered Professional Engineer in Vermont (#9090)

NAFI Certified Fire and Explosion Investigator (CFEI #12525-6247)

National Council of Examiners for Engineers and Surveying Record (#31645)