

**Daniel S. Fisher**  
Principal



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**Position** Principal / Member



Mr. Fisher has been working in the field of electrical engineering design in many different sectors of the industry since graduating from Roger Williams University (BSEET, 1991). These areas include commercial, educational, industrial, governmental and museum installations. His responsibilities have included electrical power distribution, control system design, control system implementation/commissioning, instrumentation specification, wireless system design, construction administration and fire detection systems design.

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### Experience with *ICDS*

- Specification, Design and commissioning of a sustainable 260 kW microturbine combined heat and power (CHP) plant for Monhegan Plantation Power District (MPPD) in Mohegan, ME. The project includes a hot water plant (waste recovery from the microturbines) to serve MPPD's clients.
- Specification, Design and commissioning of a sustainable 75 kW combined heat and power (CHP) plant for Department of Defense, Veterans and Emergency Management Army Aviation Support Facility in Bangor, ME. The goal of the project was to maximize electrical demand reduction and use the waste heat to reduce the heating plant's output by injecting CHP heat into the facilities heating building hot water loop.
- Specification, Design and complete integration of sustainable 800 kW fuel cell power generation combined heat and power (CHP) plant for the Coca-Cola Regional Bottling Plant in East Hartford, CT. Services also included automation integration using plant standard Allen Bradley PLCs and HMI.
- Specification, Design and complete integration of sustainable 400 kW fuel cell power generation combined heat and power (CHP) plant for numerous facilities including Stanadyne, LLC in Windsor, CT; Naugatuck Waste Water Treatment Plant in Naugatuck, CT; Alexion Pharmaceuticals in Cheshire, CT; 360 State Street Residential Tower in New Haven, CT; Roberto Clemente High School in New Haven, CT, Eastern Connecticut State University in Willimantic, CT, and Western Connecticut in Danbury, CT and several other locations between 2008 and 2017. ICDS is a preferred designer/integrator of Doosan Fuel Cell America, Inc. fuel cell products.
- Design-build services for a sustainable 260 kW micro-turbine CCHP (combined cooling, heating, and power) cogeneration plant for the Derby Middle School (thermal benefit) and High School (electrical benefit) in Derby CT. Project included hot water heat reclaim for winter heating and summer absorption cooling.
- Design-build services for a sustainable 390 kW micro-turbine CCHP (combined cooling, heating, and power) cogeneration plant for Windham Hospital in Willimantic, CT. Project included flue gas heat reclaim for summer absorption cooling and hot water heat reclaim for boiler plant condensate preheat.
- Continuing consulting services for the Monhegan Island Plantation Power District's 4160 VAC primary / 208 VAC secondary distribution systems on Monhegan Island, ME.
- Electrical and control systems design for the Home Improvement and Energy Conservation Laboratory and Offices in New Haven, CT for Neighborhood Housing Services of New Haven. Responsibilities included project management, design, field technical services, control panel fabrication, and systems integration.
- Design-build Geothermal HVAC system design and automation system integration for the 15,000 ft<sup>2</sup> New Boston Air Force Station Maintenance Office and Workshop Facility in New Boston, NH.

- Numerous design and systems integration services related to of the Teachers College (Columbia University) central district steam and chilled water plants, including efficiency analysis, boiler feed water upgrades, boiler plant automation, fuel oil transfer pump system, NYSEDA funding energy analysis, as well as, standardization of cooling and heating system tie-ins to the district plant.
- Climate control systems design, control systems integration, and commissioning for the Heard Museum Downtown in Phoenix, AZ and Heard Museum North in Scottsdale, AZ. Responsibilities included project management, design, field technical services, control panel fabrication, instrumentation setup and commissioning for systems serving over 70,000 square feet.
- Design and commissioning of numerous sustainable systems for residential, commercial, preservation-based, and LEED projects including closed-loop and open-loop (standing column) geo-exchange systems, cogeneration plants using micro-turbines and/or fuel cells with heat reclaim, direct expansion with hot-gas reheat for dehumidification, high-efficiency evaporative humidifiers, heat recovery ventilators, condensate reuse/recovery systems, etc.
- Automation of airplane wash/de-ice systems within cargo plane hangar at Westover Air Reserve Base.
- Implementation and shop drawing development of emergency generator system for underground FEMA operations and communications bunker.

### **Other Professional Experience**

- Acted as the Owner's design representative for the 900,000 square foot Woolworth Building at 233 Broadway, NY. Performed electrical design, construction administration and design review services for Class A office spaces within the lower 29 floors of the lower house and conducted several preliminary design options for the 30<sup>th</sup> thru 53<sup>rd</sup> floor upper house including additional Class A office space and several levels of residential occupancy. Design and construction administration for two new bus duct risers, 1500kVA, to serve the commercial tenants on 6<sup>th</sup> floor through 22<sup>nd</sup> floor.
- Controls upgrade for new storage tank at Vanderbilt Chemical located in Bethel, CT.
- Electrical power and instrumentation/control system distribution control system upgrades at Cytec Industries, Wallingford, CT.

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### **Education**

Bachelors of Science Electrical Engineering Technology, 1991  
Roger Williams University

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### **Professional Associations**

Member National Fire Protection Association (NFPA)  
Member International Code Council (ICC)

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### **Awards**

*Energy Star Award for the Maine Army National Guard's Army Aviation Support Facility CHP System, 2016 by United States Environmental Protection Agency*

*AIA New York State Merit Award, House on Maine Coast, 2015*

***Innovative Construction & Design Solutions, LLC***  
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