

Scott D. Fitch, P.E.
Principal



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Position: Principal / Managing Member



Mr. Fitch has been a mechanical, electrical, plumbing, and fire protection systems consultant for thirty (30) years focusing on historic preservation and facilities with sensitive needs. To complement his design work, much of his experience includes hands-on automation and commissioning of energy management systems giving him a very comprehensive understanding of systems operation and energy use. In addition, he is an EPA CHP partner and has an extensive background in sustainable design including several LEED Gold and Platinum Certified facility projects.

ICDS Project Experience

- HVAC and plumbing design for the 58,000 ft² Phoenix College Building C Science Labs and Classrooms
- Design of a replacement boiler and upgraded building automation at the Savin Rock Community and Harry M. Bailey Middle Schools, West Haven, CT
- Assessment of the existing rooftop ductwork at Berlin High School and design of a new exterior jacketing for long term longevity and low maintenance.
- Environmental control system design and control systems integration for the Monhegan Museum located on Monhegan Island, ME, including interconnection to new sustainable island power plant waste heat recovery system (NEH and USDA Grants Awarded)
- Design and energy analysis of an optimized heating plant for use with the Building 260 radiant floor heating and existing combined heat and power (CHP) system.
- Holly Street Studio team consultant, energy modeler, and HVAC, plumbing, and fire suppression systems designer for the following projects:
 - Adaptive reuse of the Historic Downtown Post Office in Phoenix, AZ for use by Arizona State University as a Student Engagement facility at their downtown Phoenix campus
 - Anthem Civic Center Renovation. This also included obtaining APS incentives/rebates for substantial energy improvements for the entire 35,000 ft² facility
 - City of Phoenix's Helen Drake Senior Center (LEED Gold Certification)
 - Southwest Center for HIV/AIDS in downtown Phoenix, AZ, along with numerous tenant fit-outs
 - City of Scottsdale's McCormick Stillman Railroad Museum (LEED Gold Certification)
 - Heard Museum Home Exhibit Installation and Heard North Satellite Facility
- Environmental systems assessment of the Albuquerque Museum of Art & History (funded by an NEH Sustaining Cultural Heritage Collections Planning Grant)
- HVAC systems design for the McCormick Stillman Railroad Museum in Scottsdale, AZ. Responsibilities included developing design documents and preparing LEED documentation (LEED Gold Certification)
- Precision climate control system design and control systems integration of the Photographic Archives Cold Storage Vault at the National Park Service's Boston National Historical Park

- Solar-thermal heating and cooling systems design and systems integration for the National Park Service's Boott Cotton Mills Museum at Lowell National Historical Park in Lowell, MA (ARRA Funded Project)
- HVAC and control systems design/integration for the Neighborhood Housing Services of New Haven's Home Improvement and Energy Conservation Laboratory (LEED Platinum Certification)
- Climate control systems design, control systems integration, and commissioning for over 70,000 square feet of gallery and collections storage space at the Heard Museum Downtown in Phoenix, AZ
- HVAC systems design for over 80,000 square feet of the Arizona State University Memorial Union student services building in Tempe, AZ (Completed 2008, LEED Gold Certification)
- Environmental systems design, control systems integration, and commissioning for the North Haven Historical Society Archive Facility in North Haven, ME
- 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, combined heat and power (CHP) plants using micro-turbines, reciprocating engines, and/or fuel cells, solar thermal, solar PV, etc.

Other Professional Experience

- Climate control systems design consultant for numerous heritage properties and preservation-based projects for the National Park Service, National Trust for Historic Preservation, Smithsonian, Library of Congress, US Capitol, US Fish & Wildlife, as well as many other private and municipal exhibit and historical properties.

Education

Bachelor of Mechanical Engineering, 1990
Georgia Institute of Technology

Professional Registrations

Registered Professional Engineer: CT (License No. 19780), AZ (License No. 39298), ME (License No. 10768)

Professional Associations

Member of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
Member of the International Society of Automation (ISA)
Environmental Protection Agency Combined Heat and Power (CHP) Partner

Awards

EPA CHP Award – Army Aviation Support Facility, Bangor, ME
USGBC Heavy Medal Award 2016, Helen Drake Senior Center, Phoenix, AZ
AIA New York State Merit Award, House on Maine Coast, 2015
Most Intriguing Award for a Commercial Structure, 2009, CT Chapter of the US Green Building Council
Engineering News Record Magazine Best Projects of 2011: McCormick Stillman Railroad Museum in Scottsdale, AZ
Engineering News Record Magazine Best T.I. of 2014: Anthem Civic Building, Anthem, AZ
2014 Arizona Forward Crescordia Award: ASU Student Center at the Post Office

Innovative Construction & Design Solutions, LLC

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