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**Steven V. Dumas, P.E., LEED® -AP**  
**Principal Mechanical/Process Engineer**

**PROFESSIONAL EXPERIENCE**

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Over his 27 years of Mechanical Engineering experience, Mr. Dumas has been responsible for overall project management, engineering and construction administration services for projects ranging from conceptual design studies and facilities evaluations to complex, multi-discipline design packages for multi-million dollar projects.

**EDUCATION**

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M.S., Mechanical Engineering, Rensselaer Polytechnic Institute (RPI)  
B.S., Mechanical Engineering, University of Vermont

**REGISTRATIONS**

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Professional Engineer registered in Connecticut and Vermont

Membership in the American Society of Mechanical Engineers, American Society for Heating, Refrigerating and Air Conditioning Engineers, Instrument Society of America and the Association for Facilities Engineering.

**GENERAL EXPERIENCE**

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- Provide complete multi-discipline project support and Owner/Architect interface to ensure complete Owner satisfaction.
- Experienced with project management and oversight, including multi-discipline design team and contractor/vendor interfacing, bid proposals, cost-benefit analyses, design/conceptuals, scheduling, material procurement, budgeting, construction administration and start-up implementation.
- Conduct studies and evaluations of both conceptual and existing Process, MEP, and Control Systems to provide recommendations for operational, economic and/or performance improvements.
- Perform systems and equipment operational evaluations for non-performing or underperforming installations.
- Lead design teams through all stages of design package development and integration, including civil, structural, mechanical, piping, electrical, telecomm, data, fire protection, fire alarm, and controls.

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- Provide on-site project support and Owner's representative services, including construction observation, bid evaluation, RFI response, submittal review, construction observation, payment application review, punchlist development, start-up, commissioning, and validation support.
  - Development of both general and technical specifications for the purchase, installation, and operation of process equipment, systems, components, and supporting ancillary components and instruments.
  - Develop Building energy models utilizing industry recognized software. Complete baseline and proposed models per LEED and ASHRAE 90.1 2004 & 2007 criteria.
  - Perform LEED compliance reviews and analysis, including USGBC submittals, working with Efficiency Vermont, Vermont Gas, and Burlington Electric to maximize energy efficiency and incentives and rebates to Owners.

## **SELECT PROJECT EXPERIENCE**

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### ➤ State of Vermont – Buildings & General Services

Project Manager/Engineer for an HVAC & Controls upgrade to the St. Albans State Office Building, a three story, 42,000 sq. ft. facility. Performed cost benefit/ROI analysis for all potential systems to upgrade existing building infrastructure. Following Owner selection, developed plans & spec packages for new equipment, including energy recovery devices, with integrated controls sequences for new web based system. Developed prepurchase equipment specifications to meet Owners schedule. Provided complete CA services to ensure full design integration.

### ➤ University of Vermont – Burlington, VT

Project Engineer for a complete renovation and infrastructure upgrade to a 27,000 sq. ft. multi-story building to alleviate sick building symptoms. Responsible for all aspects of evaluation and design for complete mechanical, electrical and building controls replacement systems and LEED certification documentation for this multi use laboratory, classroom, and general office space structure. Worked closely with the Owner & Architect to ensure tenant needs were completely addressed. Project received LEED – Gold certification, and alleviated all tenant complaints.

### ➤ Dartmouth College – Hanover, NH

Provided a complete construction package for a multi-space chemistry lab renovation. Included modifications to pressure independent exhaust systems, lab utilities infrastructure upgrades to meet updated Owner needs, power distribution and lighting upgrades and major updates to mechanical system controls architecture.

### ➤ Chittenden South Supervisory Union – Essex Junction, VT

Project Manager/Engineer for a building envelope and infrastructure upgrade project to a multi-story historic landmark school structure. Installed new high efficiency boilers with modulating burners and multiboiler controls, expanded functionality of existing A/C system, and designed dedicated make-up air system with occupancy controls. Upgraded electrical service entrance and distribution, improved exterior & interior lighting, and updated data and telcomm systems.



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➤ University of Vermont – Burlington, VT

- Project Manager/Engineer for chilled water HVAC system evaluation for several systems on the North campus.
- MEP post design services for a new campus central chilled water facility. Provided on-site support for MEP and life safety systems, including interfacing with Owner and Project CM.
- CA services for a new central chilled water system. Coordinated contract documents and review PCO's to maintain project schedule and budget. Provided services commensurate with AIA document scope definition.
- Boiler/feedwater system evaluation including DA tank and all associated equipment. Developed design package for equipment upgrades, capacity improvements, system redundancy, and sizing. Scope included detailed phased installation planning and system tie-in scope to maintain the existing system operational during upgrades.

➤ Saint Michael's College – Colchester, VT

Project manager/engineer for the boiler evaluation and replacement at Alumni Hall, located on the main campus. Scope included evaluation of existing boilers, hot water heat exchangers and storage systems. Existing steam boilers replaced with new high efficiency hot water boilers and existing domestic hot water storage replaced with hot water heat exchanger units. Evaluated Code requirements, space utilization, and ancillary system designs and addresses areas requiring upgrades.

➤ IBM – Essex, VT

Project Engineer on several multi-faceted design and construction support projects. MEP systems design, equipment lay-out, and specialized equipment design, including custom air handling and HVAC component specifications, design and Vendor site testing for critical clean room applications. Services include design and post design, from concept to commissioning.

➤ Mylan Technologies

Project Engineer for a specialized temperature & humidity control system for a 8000 square foot production facility. Provided a system study with recommendations, followed by design services and specifications for a new mechanical room, new HVAC equipment, including air handler, boilers, steam humidifiers and all ancillary support equipment.

➤ YMCA – Burlington, VT

Project Engineer responsible for evaluating existing HVAC equipment and heating system for the Burlington YMCA Facility. Main objective of the evaluation was to provide recommendations for energy efficiency upgrades and system modifications to improve client comfort. In addition, proposed an HVAC system configuration that would allow existing steam boilers to be removed from service in the off-heating system. Constraints of existing historic brick structure, and downtown location were considered in all recommended upgrades.

➤ Merck & Co. - Rahway, NJ

Conducted site-wide steam demand study to determine current and projected boiler plant capacity requirements for a large multi-use industrial campus. Integrated central plant chiller



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motive options to balance seasonal demands and level utilization. Coordinated condensate return pay-back evaluations for resource conservation.

