

## ROBERT L. MORRISON, P.E.

### October Engineering, LLC

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http://octoberengineering.com

#### Services Offered:

- Energy Services Performance Contract (ESPC) project development.
- Energy Audits and Energy Conservation Measure (ECM) specification, cost savings and implementation costs. (ASHRAE Audits, all levels)
  - State of Massachusetts Department of Energy Resources Vendor for Energy Project Advisory & Consulting Services (contract PRF62, Category 4)
- Building Energy Modeling and Simulation, commercial and residential
- Building Automation System (BAS, EMS) analysis and design.  
Certifications: EasyIO™; Honeywell Comfortpoint™; Tridium Niagara AX Framework™
- Heating, Ventilating and Air Conditioning (HVAC) systems design, residential and commercial.

#### Recently Completed Projects:

- *Roxbury Community College, Boston, MA*  
Energy project costing development for DCAMM Accelerated Energy Program on behalf of Ameresco Inc.
- *City of Annapolis Buildings, Annapolis, MD*  
Energy consumption modeling and conservation project savings analysis as part of an energy project proposal for city buildings on behalf of Ameresco Inc.
- *Citizens Bank, Medford, MA*  
Energy consumption modeling and conservation project savings analysis as part of an energy project proposal for a commercial office building and data processing facility on behalf of ADI Energy Inc
- *University of New England, Portland, Me*  
Energy consumption modeling and conservation project savings analysis for multi-building campus with central steam plant
- *Town of Bloomfield, CT, Municipal Buildings*  
ESPC project development, including HVAC Controls, terminal unit replacements and demand side management (DSM) on behalf of Ameresco Inc
- *Rhode Island College*  
Central plant cogeneration concept design on behalf of Ameresco Inc
- *Town of Salisbury, MA, Municipal Buildings*  
ESPC project development, including heating plant replacement, HVAC Controls, fuel switching and DSM on behalf of Ameresco Inc.
- *Town of North Andover, MA, Public Schools*  
ESPC project development, including boiler plants, DDC, terminal unit replacement on behalf of Ameresco, Inc
- *City of Brockton, MA, Public Schools*  
ESPC project development on behalf of Ameresco Inc
- *Roxbury Community College, Roxbury Crossing, MA.*  
Greenhouse gas accounting and reporting
- *Town of Grafton, MA. Schools and Municipal Buildings,*  
Investment Grade Energy Audit on behalf of Honeywell Building Solutions

02/08 to 09/10      **Performance Contracting Engineer, Honeywell Building Solutions, Albany, NY**  
Responsible for project development and technical audits:

- City of Keene, New Hampshire; \$1.9M ESPC; boiler plants, chiller plant, EMS
- MSAD #49, Fairfield, ME; \$800k ESPC including EMS, steam boiler replacements

- Biddeford, ME schools: \$2.1M ESPC including EMS, demand side management
- University of Maine, Orono, Nutting Hall: Investment Grade Audit
- University of Southern Maine, Bailey Hall: Investment Grade Audit
- Wells-Ogunquit School District: \$400k ESPC, DDC, demand side management.

08/07 to  
02/08

**Service Sales Engineer, Honeywell Inc, 501 County Road, Westbrook, ME.**

Responsible for technical support to service projects:

- Keene State College, Keene, N.H. Provided commissioning support for DDC and sub-metering systems for LEED residence halls.
- UMaine, Orono, ME. Provided interfaced building water, electric and condensate sub-meters to DDC system for utilities data acquisition project
- State of Maine, Augusta, ME. Developed proposal for energy systems monitoring and support services
- Chiller plant design, City Hall, Portsmouth, N.H.

4/00  
to 08/07

**Group Leader, Senior Project Development Engineer AMERESCO • 111 Speen St. • Framingham, MA • 01701 • 508-661-2200**

Responsible for providing technical strategy and content for energy services performance contract proposals. Performed energy services audits, energy analysis, HVAC and control systems schematic design, cost savings and implementation cost estimates for K-12 schools, commercial and laboratory buildings. Responsible for technical presentations as a member of a project sales team. Responsible for *project-specific* administrative oversight and technical direction of development energy engineers. Representative projects: Tewksbury Hospital, Tewksbury, Massachusetts (Modifications to HPS heating plant); Mass Bay College, Wellesley Hills, MA (Central plant conversion from LPS to hot water, adding central chilled water); Norfork Walpole Corrections Complex, Massachusetts (HPS to LPS central plant conversion and replacement, ebullient cogeneration unit 575 kW); numerous K-12 projects in NY: Hyde Park CSD; Clarkstown CSD; Pine Bush CSD; Wyandanch UFSD..

6/98 to  
4/00

**Senior Project Development Engineer: NORESKO • 111 Speen St. • Framingham, MA • 01701 • 508-875-2252.**

Responsible for creating and developing technical content for energy service performance contract (ESPC) proposals in a team environment. Created energy reduction concepts, savings analysis and specification of HVAC cost reduction measures for the following winning IDIQ proposals:

- US Air Force Region 1 Solicitation,
- US Army Medical Command (MEDCOM).

Responsible for technical content and analysis for the following awarded ESPC project currently in the Detailed Energy Audit Phase:

- University of Massachusetts, Boston (13.4 M\$)

Responsible for creation and specification of technical content for the following ESPC projects currently in construction:

- Maxwell AFB, Montgomery, AL (ECM 2: 12.7 M\$)
- Eglin AFB, Panama City, FL (ECM 1: 2.0 M\$)

1/95 to  
5/98

**Director of Engineering and Construction: McBride Energy Services Company • LLC • 16-00 Route 208 S. • Fair Lawn, New Jersey • 07410 • 201-797-9444.**

Responsible for the specification, design, measurement, verification and construction of mechanical and electrical energy conservation projects. Supervised staff of four energy engineers. Audited, developed concepts, interfaced with customer technical personnel, analyzed savings and worked with sales personnel to develop four MW of demand side management (DSM) projects in New Jersey. Project measures included lighting, HVAC distribution and primary systems replacements. Distribution system measures included fan and pump VFDs; primary systems measures included chiller replacements. Designed and implemented a process condenser water loop as described in *Energy User News*. Clients included Reckitt & Colman; Merck-Medco Managed Care, Inc.; Becton-Dickinson, Inc; Allied-Signal, Inc (Teterboro, N.J).

- 6/92 to 1/95      **Senior Engineer:** EUA Cogenex Corp. • 704 Executive Blvd. • Valley Cottage, NY.  
Project engineer, specializing in mechanical applications. Responsible for mechanical design, measurement/verification protocol and implementation for projects in RG&E and PSE&G DSM environments. Interfaced with customers and utility consultants to develop mechanical energy cost reduction measures. Performed energy simulations (TRACE 600) and savings analysis. Projects included replacement of injection molders; motors replacements, VFDs; water-side economizer for process load. Designed and implemented a lighting data processing computer application. Clients included Motorola, Eastman Kodak, Hayward Industries.
- 1/91 to 6/92      **Adjunct Lecturer:** Dept. of Computer Science • Queens College • C.U.N.Y. •, Flushing, N.Y. •  
Instructor for Discrete Mathematical Structures and software programming courses.
- 5/89 to 1/91      **Computer Analyst:** N.M.I./Network Analysis Center, Inc. • Suite 300 W. • Syosset, N. Y.  
Specification and development of computer programs including VGA graphics library, LAN port.
- 8/88 to 5/89      **HVAC Designer:** Joseph Loring and Associates • One Penn Plaza, • N. Y., N. Y.  
Responsible for client contact and design for commercial and institutional HVAC projects, including hospitals, high and low-rise buildings. Projects included steam and fuel oil supply system for Kings County Hospital Center, Brooklyn, NY.
- 4/87 to 8/88      **HVAC Designer:** Shooshanian Engineering Assoc. • 330 Congress St. • Boston, Ma.  
Served as client liaison and principal designer for HVAC projects. Responsible for computer calculations for all large projects: heating and cooling loads, energy usage simulations (TRACE 500). Co-authored thermal storage feasibility study for office building (Mitre Corp).
- 6/85 to 4/87      **HVAC Designer:** Boston, Ma.  
Employed as an HVAC designer for A.E.I. and AM-TECH Engineers, respectively. Responsible for the design of hydronic heat pump HVAC system, high-rise smoke control, school heating and ventilation systems.
- Education:**  
1992      M.A., Computer Science. Queens College, CUNY, Flushing, N.Y.  
1985      B.S., High Distinction, Mechanical Engineering. University of Maine, Orono, Maine.  
1976      B.A., Philosophy. University of Maine, Orono, Maine.

**Professional Registrations:**

New Jersey Professional Engineer (GE 40706)  
New York Professional Engineer (079129)  
Massachusetts Professional Engineer (43339)  
Maine Professional Engineer (11927)