

Hirav Joshi, CEA, LEED AP

160 E Hartsdale Ave, Apt # 2B,
Hartsdale, NY 10530

(732) 331-2626
hirav.joshi@live.com

CAREER INTEREST

To pursue and develop the technical ability that incorporates the skills of energy audits, energy modeling designs and knowledge of LEED, in order to contribute to the field of green building and energy efficiency.

EDUCATION

New York Institute of Technology, New York, NY
Master of Energy Management, May 2007(GPA 3.65)

L.E.COLLEGE, MORVI (Affiliated with Saurashtra University)
Bachelor of Science in Mechanical Engineering, July 2003

TECHNICAL SKILLS

- IES "Virtual Environment", Visual Doe, eQUEST, Design Builder, TREAT, Carrier HAP and NYSERDA Custom Measure Tool.
- AutoCAD (from Autodesk Authorized center), Revit, Pro-Engineer
- Microsoft Office: Word, Excel, PowerPoint.
- Google SketchUp.

PROFESSIONAL EXPERIENCE

OLA Consulting Engineers, PC
Energy Engineer

Hawthorne, NY
January 2010 – Present

Project-Specific Work:

- Provided NYSERDA FlexTech Study with Visual Doe energy model for schools in upper Westchester region of New York with detail list of energy conservation measures.
- Executed all levels of ASHRAE energy audit for schools, residential building and commercial properties.
- Performed detailed Visual Doe energy analysis for several residential and commercial properties and incentivized through NYSERDA.
- Helped design decisions in early phase of projects for energy efficiency purposes through spreadsheet based calculations.
- Provided detailed energy savings summary for lower payback energy conservation measures with Custom Measure tool and incentivized through NYSERDA.
- Analyze and implement improvements and corrective action on existing building HVAC system components, including gas and oil based heating equipment, and follow through on corrective actions.
- Perform life assessment studies and lifecycle analyses on recommended HVAC technology and equipments including renewable technologies.
- Provided engineering services to clients in the areas of geothermal analysis, PV design, Combined Heat and Power Analysis and scope of work.
- Served as Commissioning Agent and provided commissioning services to the one of the major car dealership in Cortlandt Manor, New York.

General Duties:

- ASHRAE all level audits to commercial and institutional facilities.
- Visual Doe and eQuest based energy modeling
- HVAC Load Analysis, Equipment Selection
- ASHRAE 62 Calculation
- Identify and recommend energy savings measure on a project level.
- Create spreadsheet based calculations for dehumidification, lighting and geothermal analysis.
- Commissioning documents, functional test sheets and control specs writing.
- Utility Data Analysis.

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PROFESSIONAL EXPERIENCE CONTINUED

Science Application International Corporation
Energy Engineer

New York, NY
Aug 2008 – Aug 2009

Project-Specific Work:

- Performed detailed eQuest energy analysis for penitentiary in correctional facility; applied for NYSERDA incentives and silver rating under LEED New Construction.
- Prepared detailed energy model for Library located at upstate New York using eQuest energy simulation tool for NYSERDA incentives and LEED new construction certification.
- Performed commercial energy audit for the transit facilities located throughout New Jersey for lighting systems and controls, HVAC systems and controls, motors, VFDs, building management control systems, compressed air systems and building envelope and created lighting study for proposing energy saving and reduction of total energy consumption.
- Conducted detailed energy audit for tunnels, bridges and Port Authority facility for HVAC systems and controls, motors and drives and building managements systems as a part of the peak kWh demand reduction program.
- Established energy savings summary of different energy efficiency measures for projects less than 10,000 square feet, using NYSERDA Custom Measure Tool for NYSERDA incentives.
- Executed extensive audit for “NYSERDA’s Multifamily Performance Program” for buildings located in lower Manhattan and created a TREAT model to show energy reduction plan through different energy conservation measures.

General Duties:

- Conduct energy audits in large commercial, residential and institutional facilities.
- Identify and quantify energy conservation opportunities associated with HVAC, EMS, building shell, and heating and cooling systems.
- Perform energy savings calculations; develop cost estimates and written description of energy conservation measures in support of proposal and technical audits.
- Calculate energy savings associated with mechanical HVAC equipment and systems.
- Prepare systems, lighting and mechanical takeoffs for energy modeling.

KINETIX [business ecology]
Associate, High Performance Design

New York, NY
May 2007 – Aug 2008

Project-Specific Work:

- Created schematic and detail energy model for Leadership in Environmental and Energy Design (LEED) core and shell building located in Madison, New Jersey. Provided Mechanical Engineering and Plumbing (MEP) recommendations for building Heating Ventilating Air Conditioning (HVAC) system on the basis of energy analysis for building pre-certified as LEED Gold.
- Performed schematic and detailed building energy analysis for LEED New Construction project in Manhattan. Provided MEP recommendation of energy recovery unit for high energy efficient HVAC system.
- Developed schematic energy model for LEED New Construction project for hotel located in Manhattan. Compared results with various HVAC systems options to recommend most energy efficient design.
- Developed high efficiency energy design for a residential building located in Manhattan, pursuing LEED silver certification. Considered Variable Refrigerant Flow HVAC system.

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PROFESSIONAL EXPERIENCE CONTINUED

General Duties:

- Conducted operating and economic analyses of building energy systems.
- Analyzed building blue prints to identify mechanical, electrical, and plumbing systems and determined facility operation characteristics to increase efficiency of MEP systems.
- Developed sustainability goals and standards for clients.
- Conducted schematic design and specification of sustainable design solution for New Construction and Core and Shell buildings as part of sustainability assessment of project pursuing LEED.
- Diagnosed and analyzed energy performance and the engineering of integrated solutions through application of analytic and design software.
- Provided expertise of ASHRAE standards for building system and generated baseline building as per the ASHRAE 90.1, 2004 to compare the performance of design building to achieve LEED Energy and Atmosphere credits.
- Developed design concepts and other written technical documentation to gain detail system information, potential saving for cost and energy budget difference.
- Researched emerging HVAC systems, green technology and AHSRAE standards for applicability to projects.
- Prepared LEED certification templates for achieving Energy and Atmosphere credits.
- Interfaced with architects and construction teams to assist in commissioning procedures and documentation during design and construction phases.

Community Environmental Center Energy Intern

New York, NY
January 2007 - April 2007

- Conducted facility site visits, analyzed projects, developed savings calculations, produced energy conservation/facility improvement measure plans and documentation.
- Performed preliminary and detailed facility audits to identify facility improvement measures. Participated in site visits using observational skills to collect required data to perform engineering calculations.
- Performed Utility Data Analysis by entering utility billing information, analyzed information contained in energy bills, and compared results to accepted standards by using software EA-QUIP and TREAT.
- Developed skills for visual post-inspection for energy retrofitting and identifying the presence of asbestos or other hazardous materials.
- Trained in multiple building diagnostic procedures, including air quality testing and blower door technology.
- Studied interactivity of building energy efficiency while considering heating and cooling load.
- Analyzed energy-related standards of ASHRAE AND NYSERDA (including weatherization process).

MEMBERSHIPS & CERTIFICATIONS

- LEED Accredited Professional for New Construction
- AEE Certified Energy Auditor.
- Member, ASHRAE, New York Bi-State Chapter.
- Member, USGBC New York Chapter.
- EIT & CEM certification under process.