



Patrick Osborne

PE, GBE, CEM, BESA

Senior Energy Engineer

Patrick is a Senior Energy Engineer at Harris Energy Solutions with 15 years of experience in mechanical engineering, energy efficiency, building energy modeling, energy auditing, HVAC, and solar design. He holds a Bachelor's of Science in Mechanical Engineering from West Virginia University and multi-state licensure as a Professional Engineer. Patrick has extensive knowledge of ECMs, incentive programs, energy savings analysis, and various computer programs, including AutoCAD, Excel, eQuest, and DOE2 energy coding.

EDUCATION

West Virginia University

Bachelor of Science in Mechanical Engineering 2008

RELEVANT EXPERIENCE

- Developed energy efficiency projects for public and private sector customers, reducing energy costs and lowering emissions for buildings of all sizes and types
- Assessed compliance and eligibility for utility, state, and local laws and incentive programs in New Jersey, New York, and elsewhere
- Performed on-site data collection, utility analysis, energy savings calculations, and financial cost-benefit analysis then creating reports to show the information
- Conducted ASHRAE Level I, II, and III energy audits and generated technical reports for multiple types of buildings
- Analyzed Energy Efficiency Measures (ECMs) for energy audits and energy models, including HVAC, lighting, controls, plumbing, and envelope measures
- Generated eQuest/DOE2 energy models for various types of buildings
- Analyzed the feasibility of heat pump retrofits for decarbonization
- Designed and implemented specialized calculation templates to streamline and enhance efficiency in mechanical calculations, contributing to a more organized and effective workflow
- Leveraged QC audits to troubleshoot and refine models, ensuring continuous improvement and optimal performance in quality control processes
- Conducted thorough third-party reviews, ensuring the accuracy and efficiency of energy systems and processes
- Developed lighting layouts for various projects, ensuring optimal illumination and energy efficiency
- Identified and implemented cost incentives, resulting in significant savings for clients

CERTIFICATIONS AND SKILLS

Licenses:

- Professional Engineer (PE)
 - California, License No. M41769
 - Connecticut, License No. PEN.0037402
 - Illinois, License No. 062.075634
 - Massachusetts, License No. 58236
 - Minnesota, License No. 61831
 - New Jersey, License No. 24GE05635500
 - New York, License No. 103406
 - Pennsylvania License No. PE09442
 - Utah, License No. 13332937-2202
 - West Virginia, License No. 22718

Certifications:

- Association of Energy Engineers (AEE)
 - Certified Green Building Engineer (GBE)
 - Certified Energy Manager (CEM)
 - Building Energy Simulation Analyst (BESA)
- ENERGY STAR Certified Rater
 - Single-Family New Construction (SFNC)
 - Multi-Family New Construction (MFNC)
- Occupational Safety and Health Administration (OSHA) 30-Hour Construction

Skills:

- Software:
 - eQuest, AutoCAD, Excel, DOE2



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