

Zachary Yamin

(240) 505-4287 | zacharyyamin@gmail.com

Los Angeles, CA 90026

SUMMARY

Experienced energy engineer with a solid technical background in HVAC Systems and Energy Analysis. Proficient in load calculations, energy modeling, energy auditing, and HVAC mechanical drafting. Excellent organization and communication skills to collaborate at all levels.

EXPERIENCE

Mechanical Engineer

Salas O'Brien – Bethesda, MD

February 2023 to July 2024

- Supported senior engineers in providing design, evaluation, and planning of mechanical systems for government buildings, hospitals, laboratories, schools, and office buildings
 - Drafted mechanical ductwork, piping, and detail drawings using AutoCAD and Autodesk Revit
 - Calculate building cooling, heating, and ventilation loads using Trane TRACE 700 and Excel
 - Created, edited, and assembled specifications
- Conducted building surveys and drafted as-built drawings for hospital plumbing systems

Energy Engineer II (Mid-Level)

Spectrum Energy, LLC. – Columbia, MD

March 2017 to February 2023

- Applied building energy simulation programs (Trane TRACE 700, eQuest) and MS-Excel to conduct energy analyses for:
 - Life cycle cost analyses (LCCA) of energy conservation measures
 - Utility incentive applications, Code Compliance models, LEED EAc1 models
- Conducted energy audits to evaluate energy conservation measures related to building envelope, lighting, HVAC, domestic hot water, and plug load management
 - Ensured project compliance with local Building Energy Performance Standards (BEPS) Programs
- Collaborated with design teams and clients to brainstorm, evaluate, and execute energy conservation measures for new construction and existing buildings
- Created energy study reports for audits, utility incentives, LCCA, 179D Tax Deductions, Code Compliance
- Conducted QA/QC for engineering team on energy calculations and reports
- Provided full turnkey service to identify and process all funding opportunities and for customer projects (utility incentives, grants, loans, tax deductions) to reduce first cost and improve bottom line
 - Collaborated with program managers to maximize funding opportunities
 - Processed trend data for measurement and verification of reported energy savings

TECHNICAL SKILLS

- Energy Modelling Software (Trane TRACE 700, eQuest, EDSL Tas, System Advisor Model)
- Microsoft Office (Excel, Excel Macros, Word, PowerPoint)
- CAD (AutoCAD, AutoCAD MEP, Autodesk Revit)

CERTIFICATIONS AND LICENSES

- Leadership in Energy and Environmental Design (LEED) Green Associate (GA)
- Fundamentals of Engineering (F.E.) in progress
- Certified Energy Manager (C.E.M.) in progress

EDUCATION

Bachelor of Science in Mechanical Engineering

A. James Clark School of Engineering, University of Maryland - College Park, MD

December 2016