Harris
ENERGY SOLUTIONS

Daniel Jimenez

EIT
Mechanical Engineer

Daniel Jimenez is an Energy Engineer with a Bachelor's degree in Mechanical Engineering from the Macaulay Honors College at CUNY. He has extensive knowledge of engineering principles and measurement and verification (M&V) techniques. Daniel also has experience with research design, building energy analysis and M&V principles.
His hands-on experience includes work with municipal building systems, sensor deployment and data collection.

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Education

Macaulay Honors College at the City College of New York
2016-2020
B.E. Mechanical Engineering

Representative Project Experience

- Established M&V documentation and coaching materials in accordance with IPMVP standards for municipal energy managers.
- Analyzed results of linear change-point regression modeling of energy data for portfolio-wide energy consumption analysis.
- Performed on-site field data collection of various building systems including ventilation, hot water and steam boilers, and chillers to support ongoing M&V analysis.
- Created standardized calculation templates for energy personnel to facilitate higher accuracy energy savings estimates.

Relevant Experience

- Technical lead on research team for ESP32 hardware usage as an Internet of Things sensor for measuring energy consumption in facilities to enhance data availability.
- Established M&V instructional documentation, standards, and coaching materials for NYC DCAS Energy managers.
- Co-author on annual segmentation analysis report on the NYC's municipal facilities portfolio to determine energy consumption by utilizing SQL queries.
- Designed coaching lessons for DCAS energy managers on multiple HVAC systems.
- Conducted statistical analysis, using Excel, on a variety of municipal buildings to determine weather-dependent energy consumption
- Conducted ASHRAE Level I energy audit including site visit collection data, energy calculations, and report development. Created M&V plans in accordance with IPMVP standards for NYC municipal energy projects

Areas of Expertise

- Microsoft Office Suite
- SQL
- Data Analysis
- MATLAB
- SolidWorks
- Autodesk Fusion 360
- Python
- KiCAD