



Tianyu Feng, PMP, CEM, LEED AP

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

Calgary, ALBERTA

Associate

Mr. Feng joined E3 in 2021. He has over four years of experience in new construction energy efficiency, where he worked on multiple major utility demand-side management programs. His work focused on evaluating various energy efficiency strategies, building energy modeling, and project management to help owners, builders, architects, and engineers to optimize the energy performance of their new construction and major renovation projects. Before that, Tianyu was the first recipient of the John Weidt Research Fellowship at the Weidt Group, where he conducted extensive research on the multi-aspect energy performance of buildings across all 8 U.S. climate zones.

Select E3 projects include:

- **NYSERDA BEEM (Building Efficiency and Electrification Model) Roadmap (2021)**. Analyzed the implementation of a list of energy efficiency strategies towards building electrification by evaluating their economic performance and market penetration in residential and commercial sectors. Helped create an output viewer for the clients to assess the performance of different scenarios.
- **Building Electrification U.S. Market Assessment for a Major Heat Pump Manufacturing Company (2021)**. Developed a model to estimate the market penetration, projected sales growth, and cost analysis for space heating and water heating heat pumps under different federal and state policies.

WILLDAN

Energy Engineer

Chicago, IL

March 2018 – June 2021

- Led 68 clients in optimizing energy consumptions and financial analysis for buildings and public infrastructure across the U.S.; helped clients to obtain more than \$3.1 million energy-saving incentives from major utility companies
- Provided consulting services under a multi-stakeholder environment (i.e., utility providers, real estate investors) to propose energy efficiency solutions with a holistic approach that fulfills each stakeholder's requests
- Produced data-driven modeling and quantitative analysis with multiple energy-saving scenarios in 3 sprint phases throughout the project life cycle for 89 projects and presented the final energy cost reports to stakeholder groups
- Managed a utility Demand-side Management Program with a portfolio of over 150 projects, oversaw the technical work of 7 engineers, and reported the program progress to the clients weekly

- Assessed the feasibility of projects based on preliminary information and utility regulations; facilitated meetings with relevant stakeholders to define project work scope and minimize the risks and uncertainties
- Reviewed 95 project deliverables to ensure the accuracy of the energy simulation model results, compliance with the project scope, and program requirements

BAUMANN CONSULTING

Energy Performance Analyst

Washington, DC
August 2017 – March 2018

- Conducted an energy audit and analyzed energy usage to provide cost-reduction solutions for 1.1M+ square feet of real estate assets on a Michigan college campus; reduced annual utility bills by 20% with only a 3-year payback
- Led 6 clients throughout the process of obtaining LEED Gold or Platinum certification by preparing technical reports, analyzing energy use for their properties in the United States, Germany, and Singapore
- Assisted in developing responses to 6 RFPs, including detailed scopes of work, project timelines, financial budgets, and bid pricing; awarded 2 international airport expansion projects

WILLDAN

John Weidt Research Fellow

Minnetonka, MN
May 2016 – May 2017

- Developed an industry-focused statistically-significant model to support the firm’s consulting services by conducting thorough probability and sensitivity analysis with 500,000+ simulation runs on infrastructure energy consumption across North America
- Analyzed statistical correlations between energy policy, technology development, and gas and electricity savings potential from 2017- 2022
- Researched 20 case studies and generated quantitative analysis to support a sustainable building design in Kaunas, Lithuania; the project earned the Design Merit Award by the American Institute of Architects, Eastern NY Chapter

Education

Georgia Institute of Technology
M.S., Architectural Technology

Atlanta, GA
July 2017

Iowa State University
Bachelor of Architecture

Ames, IA
December 2014

Citizenship

China