

**Arash Kialashaki, Ph.D.**

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**Summary**

- Dedicated Intermediate Energy Engineer,
- Experienced in technical and economic analysis of energy efficiency projects,
- Skilled in modelling and calculating baseline energy demand and potential savings,
- Capable of energy monitoring and verification plans development,
- Proficient in recording project financial information, due diligence materials, spreadsheet analyses, communications and correspondence,
- Expert in energy policy of California utilities (IOUs),
- Strong communication skills and relationship building abilities.

**Education**

- PhD in Mechanical Engineering (Minor: Industrial Engineering), University of Wisconsin-Milwaukee , GPA:3.91, Dec 2014
- Master of science in Mechanical Engineering, University of Wisconsin-Milwaukee, GPA:3.90, Dec 2011

**Computer Skills**

- Engineering applications: Pro-Engineering, Auto CAD, SolidWorks, ANSYS/Fluent
- Programming applications: Matlab, Simulink, Pascal, C++
- Microsoft Office applications: Microsoft Word, PowerPoint, Excel, Access
- Adept in developing spreadsheet analysis for baseline and savings using Microsoft Excel
- Energy modeling tools: EnergyPro, CBECC, SimCalcs, eQuest
- Energy assessment tools (developed by Dept. of Energy):
- PSAT / AirMaster+ / SSTS / PHAST / FSAT / MotorMaster+

**Career History and internship experiences**

- **Energy Engineer II, Lincus, Inc., Emeryville, CA**  
(September 2014 – Now)  
Responsibilities:
  - Developed energy efficiency and energy engineering projects that involves energy audits, construction documentation review, energy analysis, simulation programming
  - Oversaw program and project verification activities to ensure objectives, goals, targets, and implementation strategies are achieved and executed within budget and in accordance with regulatory standards, policies and procedures, audit recommendations and as directed by the customer or Public Utility Commission.
  - Actively conducted all aspects of energy project development including finding RFPs, writing proposals, budget analysis, leading a team of engineers, implementation and management of the projects.
  - Participated in demand side management (DSM) program related energy engineering, analysis and management.
  - Proactively supported development and budget management of energy efficiency programs and presented contractor results to customer’s management.
- **Energy Engineer, Industrial Assessment Center**, University of Wisconsin-Milwaukee  
(May 2013-August 2014)  
Funded by Department of Energy  
Responsibilities:
  - Audited industrial manufacturing facilities such as food products, concrete products, and trucks manufacturing
  - Analyzed utility bills and detected the potential areas of saving and improvement
  - Worked in groups to identify the potential recommendation in order to improve the energy efficiency, reduce carbon footprint and boost the productivity

- Offered assessment recommendations such as “boiler optimization”, “chiller and cooling tower replacement”, and “feasibility analysis of installing CHP systems”, all aimed to improve energy efficiency and productivity of the industrial facilities
- Supported industrial customers with financial analysis of suggestions and calculation of payback periods
- Touched base with the company to implement the recommended retrofit solutions

### **Teaching Experience**

- **Instructor and Teaching Assistant , Department of Mechanical Engineering, University of Wisconsin-Milwaukee** (2010 – 2014)
- **Mentor, College of Engineering, University of Wisconsin-Milwaukee** (Summers 2010 – 2014)

### **Publications**

- *Peer reviewed*
  - **A. Kialashaki**, J. Reisel, “Modeling of the Energy Demand of the Residential Sector in the United States Using Regression Models and Artificial Neural Networks”, *Applied Energy*, Vol 108, 2012
  - **A. Kialashaki**, J. Reisel, “Modeling of the Energy Demand of the industrial Sector in the United States Using Artificial Neural Networks”, *International Journal of Energy and Statistics*, 2 (03), 207-226
  - **A. Kialashaki**, J. Reisel, “Development and validation of artificial neural network models of the energy demand in the industrial sector of the United States”, *Energy* 76, 749-760
  - **A. Kialashaki**, J. Reisel , “Analysis of electricity production from renewable resources in the United States; Lessons from leading states”, *Energy Policy*, Under Review
- *Attended and presented in more than 10 international conferences.*

### **Awards and Recognitions**

- Chancellor’s Award, Academic Excellence, University of Wisconsin-Milwaukee, 2010-2013
- IEEE Certificate of Completion for “Electrification of Transportation”, September 2013
- Reviewer of Technical Journals in Mechanical Engineering, 2012 - Now
- Member of Association of Energy Engineers (AEE), 2013 - Now
- Member of American Society of Mechanical Engineers (AMSE) 2014 - Now

### **Websites**

- <https://sites.google.com/site/kialashaki>