Manohar M. Mogadali

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.   San Francisco, CA
Senior Consultant

Mr. Mogadali joined E3 in 2017 upon the completion of his Master of Science in Energy Resources Engineering from Stanford University. Prior to that, he received both a Bachelor and Master of Technology in Mechanical Engineering from the Indian Institute of Technology. Mr. Mogadali's coursework included energy systems modeling, solar cells, batteries and fuel cells, data analytics for urban systems, and machine learning. He has experience in building electrification, multi-objective optimization, and renewable energy. He is also skilled in various statistical and engineering software and languages such as PLEXOS, Python, R, AMPL, C++, MATLAB, AutoCAD, NI LabVIEW, and ANSYS.

At E3, Mr. Mogadali has worked on projects involving the Western EIM, Community Choice Aggregators, and powerhouse optimal dispatch. Recent projects include:

- o Evaluated the benefits of joining the Western Energy Imbalance Market based on modeling real time markets and optimal dispatch using PLEXOS for a major BAA
- o Used a Python-based model to evaluate the feasibility of a powerhouse upgrade using market revenue streams from both DA and Real-Time markets in the North West
- o Supported the development of an Integrated Resource Plan for a Community Choice Aggregator by projecting IOU rates for the next ten years

CITY OF PALO ALTO UTILITIES   Palo Alto, CA
Resource Planner   Summer 2016

- o Studied and modeled electrification (fuel-switching from natural gas) in commercial buildings in Palo Alto as a possible option for mitigating GHG emissions in Palo Alto
- o Developed energy simulation models using eQUEST software and devised rebate plans for adopting Heat Pumps and Heat Pump Water Heaters

STANFORD UNIVERSITY   Palo Alto, CA
Research Assistant   September 2015 – July 2017

- o Funded by Stanford Woods Institute for the Environment
- o Developed and optimized a thermodynamics model of CO_2 capture in a gas turbine to minimize formation of carcinogenic N-nitrosoamines based on experiments in a scaled-down test rig donated by Statoil, Norway

BUNDL TECHNOLOGIES (SWIGGY)   Bengaluru, India
Operations Consultant   April 2015 – June 2015

- o Developed a surge-pricing model for India's fastest growing restaurant delivery startup operational in 15 cities in India
- o Drafted best practices in the customer support and finance teams to increase the bottom line of the company by 40%

SCHLUMBERGER OILFIELD SERVICES   Mumbai, India
Field Engineer, Drilling and Measurements Team   August 2013 – February 2015

- o Responsible for directional control during drilling in geographies such as India, Russia and UAE
- o Programmed and oversaw operation of downhole tools to ensure safety and to produce logs

ENFRIEN TECHNOLOGIES AND SOLUTIONS   Bengaluru, India
Mechanical Design Team   May 2011 – Jul 2011

- o Designed the firm's *maiden proprietary product*: an LED luminaire with improved thermal and structural performance
- o Launched in January 2012 and generated a revenue of $ 2.5 million within the first year

Education

Stanford University   Palo Alto, CA
M.S., Energy Resources Engineering   June 2017

Indian Institute of Technology   Madras, India
B.Tech and M.Tech, Mechanical Engineering   June 2013

Citizenship

India