

NASREDDINE EL-DEHAIBI

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EDUCATION

- Stanford University**, Stanford, CA *Sep 2016-Present*
Doctor of Philosophy in Mechanical Engineering – Sustainable Product Design, **Qatar Research Leadership Fellow**
Stanford Ignite Certificate Program – **Graduate School of Business** *Mar 2019*
Relevant Coursework: Design Innovation, Data Mining, Machine Learning, Strategic Communication
- University of Michigan**, Ann Arbor, MI *Dec 2015*
Master of Engineering in Energy Systems Engineering – Renewables & Sustainable Strategies, **Qatar Research Leadership Fellow**
- Texas A&M University**, College Station, TX & Doha, Qatar *May 2014*
Bachelor of Science in Mechanical Engineering; Engineering Systems Management Certificate – **Cum Laude & Full-Merit Scholarship**

PROFESSIONAL EXPERIENCE

- Research Associate – Qatar Research Leadership Program (QRLP)**, *Qatar Foundation*, Doha, Qatar *Aug 2014-Present*
• Granted a competitive fellowship to pursue higher education in the United States (MS & PhD)
PhD Dissertation *Sep 2016-Present*
• Developed design methods to help designers determine customer perceptions of product sustainability, which may differ from actual sustainability, using crowdsourced annotations of online reviews and machine learning
• Investigated how to increase demand for sustainable products by modifying online product descriptions and designs to emphasize features that have perceived customer value as indicated in their written reviews
Solar Energy Growth Project *Feb-Aug 2016*
• Developed a Monte-Carlo module to promote gradual substitution of oil and gas production with solar energy in Qatar
• Advised Qatari officials on cost effective energy policies for economic stability
- Lead Course Assistant – Analytical Product Design (ME 215C)**, *Stanford University*, Stanford, CA *Apr 2017-Jun 2019*
• Led a team of three course assistants to mentor a class of up to 50 students
• Guided students with building engineering, manufacturing, and marketing models to optimize their product for maximum profit
• Facilitated team building exercises to assist students in building strong, healthy teams
• Co-organized Stanford Design EXPE where students showcase their final products
- Edison Engineering Development Program (EEDP) Intern**, *GE Oil & Gas*, Doha, Qatar *Jul-Aug 2013*
• Executed Six Sigma to optimize steam turbine design specifications resulting in a 2.85% increase in power generation
• Coordinated with shop floor technicians on turbine design feasibility within factory infrastructure constraints
• Presented workings of a machine learning algorithm that optimizes design specifications for customer requirements
- Summer Intern – Operations**, *Qatargas (formerly RasGas Company Limited)*, Doha, Qatar *Jul-Aug 2012*
• Facilitated maintenance with control room operators for a plant generating \$10 billion in annual revenue
• Documented operations of the plant and presented to management on learning experiences gained

PUBLICATIONS

- El-Dehaibi, N., and MacDonald, E. F., 2020, “**Investigating Inter-Rater Reliability of Qualitative Text Annotations in Machine Learning Datasets**,” 16th International Design Conference, Dubrovnik, Croatia, May 18-21.
- El-Dehaibi, N., Goodman, N. D., and MacDonald, E. F., 2019, “**Extracting Customer Perceptions of Product Sustainability from Online Reviews**,” *Journal of Mechanical Design*, Vol. 141, No. 12, pp. 121103.
- Bohra, M., El-Dehaibi, N., Sanfilippo, A., and Khraisheh, M., 2018, “**Potential Impacts of Solar Energy Integration on Fuel-Mix Strategies in Qatar**,” *The Economics of Renewable Energy in the Gulf*, Routledge, London, U.K., pp. 167-187.
- Bill, Q., Spevacek, C., El-Dehaibi, N., and Johnson, W., 2016, “**Uber and the Sharing Economy: Global Market Expansion and Reception**,” Erb Institute, Ann Arbor, MI, case study#1-430-479.

ORGANIZATIONS & ACTIVITIES

Co-President of **Advanced Degree Consulting Club**, *Stanford University*
Member of **Stanford Ski Team**, *Stanford University*

Computer Knowledge: Java, C++, Python, R, MATLAB, SolidWorks, LabVIEW
Languages: English (Fluent) & Arabic (Fluent)