Amine Mohamed Oueslati

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EDUCATION

University of California, Berkeley — **Berkeley, CA**
M. Eng, Fung Institute for Engineering Leadership & Material Science and Engineering — Anticipated May 2016
GPA: 3.7

University of Maryland, College Park — **College Park, MD**
B.S., Material Science and Engineering, Specialization: Advanced Energy Systems — May 2015
GPA: 3.76

PROJECT MANAGER EXPERIENCE

Lawrence Berkeley National Laboratory — **Berkeley, CA**
Project Manager, Low Cost Disposable Battery for the Developing World (Project Numa) — Fall 2015 – Present
Goal: Design, prototype and optimize a novel, cost effective iron battery that can operate an LED and charge a mobile phone
- Lead materials selection, electrode engineering and hands on electrochemical testing
- Design an impermeable plastic housing that contains the cell and is compatible with a mildly corrosive solution
- Direct a market study and financial analysis on the commercialization of the battery
- Qualified and currently participating in the Big Ideas Competition at UC Berkeley

Capstone Design Competition, University of Maryland — **College Park, MD**
Project Manager, Laser Induced Graphene Sponge — Spring 2015
Goal: Design and prototype a new effective, economic and environmental material to clean up oil spills
- Lead the finite element computational modeling team to simulate oil sorption of Laser Induced Graphene
- Conducted lab scale experiment to evaluate samples fabricated by the renowned James M Tour group at Rice University
- Managed the finances of a team of five engineers and completed the project in 9 weeks meeting a budget of $1000

Energy Research Center, University of Maryland — **College Park, MD**
Project Manager, Shape Memory Paper — Fall 2014 – Spring 2015
Goal: Design and prototype a new shape morphing composite that operates in dry environments at low currents
- Collaborated with Dr. Jinsong Tao to select the appropriate organic and metallic counterparts for the composite
- Conducted and documented various electrical and strain related test results to evaluate performance and reliability
- Research publication is currently under review

REASEARCH EXPERIENCE

Robert A. W. Carleton Lab, Columbia University — **New York, NY**
Research Assistant, Neutron Diffraction Stress Measurements in Suspension Bridge Wire Bundles — Summer 2014
Goal: Use neutron diffraction to understand the effects of mechanical interference of the outer wires on a broken central wire
- Developed an algorithm to synchronize and extrapolate force and strain test results on a single time stamp
- Processed Stress-Strain data to analyze slipping behavior during neutron diffraction using Matlab
- Presented weekly reports involving findings, roadblocks and required experiments to advance algorithm development

Laboratory for Nanoparticle Based Manufacturing and Metrology, University of Maryland — **College Park, MD**
Research Assistant, 3D and 2D Printing of Nanoenergetic Materials — Fall 2013 – Spring 2014
Goal: Develop a printable nanothermite ink in order to increase thermite welding efficiency
- Assisted in customizing a Makerbot Replicator (3D Printer) to print liquids using an in-house pressure system
- Evaluated numerous formulations of inks using light microscopy and burning tests
- Presented a poster with printer design, printing data and burning properties on Undergraduate Research Day

OTHER EXPERIENCE

University of California, Berkeley — **Berkeley, CA**
Finance Team Member, Berkeley Hyperloop Project — Fall 2015 – Present
Goal: Raise $500,000 for project development and compete in the SpaceX Hyperloop Pod competition
- Design sponsorship packages and directly communicate them with various company Human Resources departments
- Act as a technical liaison for potential investors in order to gather necessary social and financial support

Coleman Fung Institute for Engineering Leadership — **Berkeley, CA**
Leader, Student Career Representative Team — Fall 2015 – Present
Goal: Work closely with career services to help plan, communicate and implement career-related events
- Participate in Student Leadership Committee to organize student initiatives
- Act as liaison with potential employers and promote their workshop/event to the student body

SKILLS

Proficient in: Advanced manufacturing Modeling, Battery manufacturing and testing, 3D printing, Matlab, Microsoft Office, Arabic and French
Exposure to: LabView, Origin, AutoDesk, CAD, JAVA, Design of Experiments, R, Electrical and pneumatic circuit design, Statistical analysis

HONORS & GRANTS

- University of California, Berkeley College of Engineering Opportunity Grant
- Tau Beta Pi (National Engineering Honor Society)
- Alpha Sigma Mu (International Honor Society for Materials Science and Engineering)
- Dean's List & Academics Honors University of Maryland

INTRESTS/ACTIVITIES

Electric Vehicle Design, Battery design and packing, Smart grid development, Maryland Boxing Club, French tutor, Graduate Teacher Assistant