Marco E. Dunwell

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EDUCATION

University of Delaware

Newark, DE

- Ph.D. in Chemical Engineering, 2013 Present
- Advisors: Asst. Prof. Bingjun Xu, Prof. Yushan Yan
- Developed *in-situ* spectroscopic techniques for the investigation of fundamental electrochemical principles and important electrochemical systems such as hydrogen oxidation and CO₂ reduction.
- Designed and developed new equipment and experimental techniques as an initial member of the Xu research group.

New Mexico State University

Las Cruces, NM

- BS in Chemical Engineering, 2009 2013
- GPA: 3.90
- Student Chapter Officer: American Institute of Chemical Engineers
- Student Chapter Officer: National Society of Professional Engineers

PROFESSIONAL EXPERIENCE

University of Delaware

Teaching Assistant

Spring 2014 - Fall 2015

- CHEG 231: Chemical Engineering Thermodynamics I
- CHEG 441: Mass Transfer Operations

Intel Corporation

Technical Intern

May 2012 - August 2012 & May 2013 - August 2013

- Developed procedures to prevent power interruptions to vital machines.
- Instituted new procedures to prevent machine downtime and improve tool availability.
- Analyzed cost of machine repairs and pinpointed areas of potential waste.

Los Alamos National Laboratory

Physics Division

June 2011 - August 2011

- Wrote LabVIEW programs for data acquisition and storage as well as real-time monitoring of critical systems.
- Assembled large-scale experimental apparatus.

NMSU Chemical Engineering Labs

Dr. Hongmei Luo Research Lab

March 2011 - May 2013

- Synthesized zeolites for use as acid catalysts in the conversion of fatty acid methyl esters to hydrocarbon chains.
- Synthesized and analyzed metal-oxide nanomaterials for use as electrode materials in lithium-ion batteries.

HONORS AND AWARDS

- Crimson Academic Scholarship
- New Mexico AMP Undergraduate Research Assistantship Program
- Paul W. & Valerie Klipsch Endowed Scholarship Honoring Joe and Priscilla Creed
- Dean's Honor List: College of Engineering
- State of New Mexico Higher Education Department Recognition Program Scholar Award