EDUCATION

The University of California, Berkeley | GPA: 3.90

MS Materials Science and Engineering
BS Materials Science and Engineering
BS BioEngineering
May 2016
May 2016
May 2016

Programming: Matlab, Data Structures, Python, Java

Coursework: Polymer Thin Films, Electron Microscopy and XRD, Functional Biomaterials, Materials Characterization, Electronic Materials, Biomechanics, Materials Properties, Physical Chemistry

EXPERIENCE

Berkeley Climate and Energy Institute | Advanced Manufacturing for Energy R&D Engineer: Printed Batteries and Supercapacitors

Berkeley, CA
04/2015 – Present

- Characterization of failure mechanisms for Zinc Manganese printed batteries
- Conducted post failure analysis to improve cycle life and identify design weaknesses
- Modified batteries to yield 10-fold increase in capacity and 100-fold increase in cycle life

Sumitomo Electric Industries, Ltd. | Power Systems R&D Group

R&D Engineer: Design of Redox Flow Battery

06/2016 – 08/2016

- Redesigned flow channels to increase energy efficiency by 11%
- Auditioned different bipolar plate material designs to decrease cell bulk resistance by 6%
- Researched materials interface properties to yield a 13% decrease in cell contact resistance

Department of Materials Science and Engineering | The Wu Group

R&D Engineer: Thin Film Semiconductors

Berkeley, CA

08/2013 – 04/2015

- Designed fabrication methods for n/p type doping of Indium Selenide
- Applied microscopy techniques on monolayers of indium selenide: Raman, AFM, SEM, MFM
- Constructed InSe-Graphene solar-cell devices to harvest photovoltaic energy

Academia Sinica | Novel Materials and Spin Electronics Lab

R&D Engineer: Indium Selenide Semiconductor Properties

Taipei, Taiwan
06/2014 – 08/2014

- Analyzed structural properties of Indium Selenide monolayers
- Assembled InSe testing platforms using e-beam lithography and sputtering techniques
- Engineered the AFM to function as a MFM to characterize spin ice properties

PUBLICATIONS & PROJECTS

Bernard Kim, Ian Lin, Paul Wright et al., *Layer-by-Layer Fully Printed Zn-MnO2 Batteries with Improved Internal Resistance and Cycle Life*, accepted PowerMEMS Conference, 2015.

Ian Lin, Amanda Haack, Zian Liu, Ashu Shrestha, *Drug Eluting Contact Lens for Treatment of Corneal Ulcers in the Developing World*, Rice 360 Global Health Technologies Design Competition, 2016.

HONORS

Graduate Student Instructor Properties of Materials	2016
Vice President Tau Beta Pi California Alpha	2015
Gold Award The Duke of Edinburgh's Award	2014
Edward Kraft Award for Academic Excellence and Accomplishment	2013