Austin Cao Luong

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Education

University of California, Berkeley 2014 – 2018
Majors: Chemical Engineering & Computer Science (GPA: 3.86)

- Tau Beta Pi (Spring 2015 - Present), Dean's Honor List (Spring/Fall 2015)
- *Engineering Courses*: Thermodynamics, Fluid Mechanics, Heat & Mass Transfer, Kinetics & Reaction Engineering, Polymer Science, Properties of Materials
- *Computer Science Courses:* Data Structures, Machine Structures, Discrete Math

Experience

Lawrence Berkeley National Laboratory Summer 2015 – Present
Undergraduate Research Affiliate, Balsara Group

- Investigating single-ion conducting block copolymer electrolytes for use in lithium metal batteries
- Worked extensively in gloveboxes with highly reactive and pyrophoric material and chemicals
- Measured and analyzed electrical, mechanical, and thermal properties of polymer electrolytes using electrochemical techniques, rheometry, and differential scanning calorimeter

University of California, Berkeley Fall 2015
Course Reader

- Graded assignments for Introduction to Chemical Engineering Design
- Worked together with course professor, graduate student instructors, and other readers to detect common errors and provide suggestions to improve future assignments, lectures, and discussions

Projects

BearMaps: Developed the back-end of a Berkeley maps web application by implementing map rastering, routing, and autocomplete in Java. Deployed completed project on Heroku.

Text Editor: Created a text editor in Java using the JavaFX library, implementing features such as word wrapping, undo/redo, and mouse/keyboard navigation from scratch.

Chem-E-Car: Worked as a part of a zinc-air battery and battery design team to research, test, and create a battery for use in a shoe-box sized car (2015).

CO_2 Capture: Worked in a team of two to increase CO_2 capture performance of activated carbon by grafting it with nitrogenous functional groups (Fall 2015).

Skills

Laboratory: Glovebox, PEIS, DSC, rheometry

Computer: Java, Python, C, HTML, CSS, Javascript, MATLAB, Microsoft Excel, LaTeX