

ANDREW JYH-EN CHOW

www.achow50.com | achow50@berkeley.edu | +1(925) 330 8118

EDUCATION

University of California, Berkeley

B.S. Sustainable Engineering through Conservation and Resource Studies Major
Expected May 2020

Minors:

Energy Engineering
Electrical Engineering Computer Science
Sustainable Environmental Design

SKILLS

- AutoCAD
- MATLAB Programming

- Adobe Lightroom
- Microsoft Office Suite

RELEVANT COURSEWORK

- Energy and Society (ER 100)
- Physics for Engineers 7 Series
- Linear Algebra and Differential Equations
- Calculus I,II,III
- Thermodynamics
- Electrical Eng. 16A

PROJECT EXPERIENCE

Engineers Without Borders Panama

May 2017 -
Present

Water Distribution Design Team | UC Berkeley

- Designed a water distribution system for a low-income community in San Francisco, Panama
- Calculated pipe shapes and lengths for on-site work and implementation teams
- Created pipeline, tank site, and tap stand blueprints using AutoCAD

Floating Wetland Research Project: Engineers for a Sustainable World

May 2017 -
Present

Co Project Lead, Website Lead, Fundraising Lead | UC Berkeley

- Designed and built floating wetlands to reduce toxic algal blooms in Lake Temescal, Oakland
- Researched biodegradable materials and native plants for wetland
- Led a Berkeley crowdfunding effort and successfully raised \$3,300

Energy and Society (ER 100) with Professor Daniel Kammen

January 2016 -
May 2016

Student | UC Berkeley

- Designed a policy memo for the implementation of a Zero Emission Vehicles Plan in Washington State
- Completed back of the envelope calculations in topics like power plant efficiency and cost of conserved energy
- Discussed papers on Environmental Justice, Photovoltaics, Energy Economics, and other sustainability topics

Biogas Research at Pt. Reyes Dairy Farm

January 2015 -
June 2015

Independent Research and Presentation | Lafayette, CA

- Investigated chemical interactions in anaerobic digestion to understand the formation of biogas
- Analyzed and presented information on the efficiency and methane output of three different anaerobic digester designs

LEADERSHIP EXPERIENCE

Berkeley Energy and Resources Collaborative (BERC)

May 2017 -
Present

Conservation and Resource Studies Liaison | UC Berkeley

- Promote and attend lectures and discussions on a wide range of energy and resource related topics
- Volunteered as part of the BERC Energy Summit 2018 events team

The Music Connection | UC Berkeley

May 2017 -
Present

Co Vice President & Private Piano Tutor | UC Berkeley

- Connect directors and tutors to facilitate communication between Berkeley students and the community.
- Teach music theory and piano/saxophone lessons to local elementary school children

Solar Spring Break with GRID Alternatives and the Student Environmental and Resource Center

March 2018 -
April 2018

Volunteer | Oakland, CA

- Installed solar panels working in roof and ground crews, saving homeowners \$95,000 over the panels' lifetimes
- Fundraised \$10,000 through grants, corporate sponsorships, and crowdfunding to purchase solar panels

VOLUNTEER EXPERIENCE: Refugee Greece Mission Service Trip, Chengdu China Summer Education Program