

ANDREW JYH-EN CHOW

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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
- Saxophone and Piano Musician (15 years)
- Adobe Lightroom
- Microsoft Office Suite
- QGIS

RELEVANT COURSEWORK

- Energy and Society (ER 100)
- Physics for Engineers
- Linear Algebra and Diff. Equations
- EE 137A Power Systems
- Thermodynamics
- Electrical Eng. 16A/B

PROJECT AND WORK EXPERIENCE

Renewable Appropriate Energy Laboratory (RAEL), Professor Daniel Kammen

June 2018 -

Undergraduate Researcher | UC Berkeley

Present

Project 1: GHG Accounting for Laikipia County, Kenya

- Developed a current GHG Emissions inventory and accounting methodology for rural and agricultural districts in Kenya
- Analyzed livestock populations and gathered data on transportation, waste streams, and energy system emissions
- Collected soil organic and above ground carbon data using QGIS mapping software
- Assisted with writing of Journal Article for AMBIO Scientific Journal (in progress)

Project 2: CEC SELF-SWITCH San Joaquin Valley

- Developed an estimate for solar PV and biogas capacity with local dairy farms for a community in SJ Valley
- Attended community meeting to receive input and hear project proposals from groups such as PGE and Tesla

Public Works Department, Contra Costa County

June 2018 -

Transportation Engineering Division Intern | Martinez, CA

August 2018

- Developed a Pedestrian Plan for Las Trampas Rd. in Alamo, CA and Williamette Rd. in Kensington, CA
- Created cost estimates and project designs and layouts using CAD and onsite measurements

Floating Wetland Research Project: Engineers for a Sustainable World, Lake Temescal

May 2017 -

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

Present

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

Engineers Without Borders Panama

May 2017 -

Water Distribution Design Team | UC Berkeley

August 2018

- Designed a water distribution system for a low-income community in San Francisco, Panama
- Created pipeline, tank site, and tap stand blueprints using AutoCAD

LEADERSHIP EXPERIENCE

Solar Spring Break with GRID Alternatives & Student Environment and Resource Center (SERC)

March 2018 -

Project Team Co-Lead | Oakland, CA

Present

- Communicate with GRID to plan a spring break of solar installations and greentech visits for a team of 20 Cal students
- Fundraised \$10,000 through grants, corporate sponsorships, and crowdfunding to purchase solar panels
- Facilitate and teach a student led course (DeCal) on sustainability topics in the Spring Semester

Berkeley Energy and Resources Collaborative (BERC)

May 2017 -

Conservation and Resource Studies Liaison | UC Berkeley

Present

- Promote and attend lectures and discussions on a wide range of energy and resource related topics

The Music Connection | UC Berkeley

May 2017 -

After School Coordinator & Private Piano Tutor | UC Berkeley

Present

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

VOLUNTEER EXPERIENCE: Elliniko Greece Refugee Service Trip, Chengdu China Education Service Trip