

# Andrew Chow

achow50@berkeley.edu • (925)-330-8118 • 2240 Blake St. #114. Berkeley, CA • www.achow50.com

---

## **EDUCATION**

### **University of California, Berkeley**

B.S. Conservation and Resource Studies with emphasis in Sustainable Engineering

Expected May 2020

Minor(s): Energy Engineering | Electrical Engineering Computer Science | Sustainable Environmental Design

**Relevant skills:** AutoCAD, MATLAB Programming, Microsoft Office Suite, Adobe Lightroom

---

## **PROJECTS**

### **Engineering Design Team- Panama | UC Berkeley**

May 2017 - Present

Design Team Member | Engineers Without Borders

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

### **Floating Wetland Project | UC Berkeley**

May 2017 - Present

Design Team, Website Lead, Fundraising Lead | Engineers for a Sustainable World

- Design and build a floating wetland to reduce algal blooms in Lake Temescal, Oakland
- Researched biodegradable local materials and native plants for wetland
- Successful Berkeley crowdfunding effort to raise \$3,300

### **Water Filtration Design for Developing Countries Course | UC Berkeley**

January 2016 - May 2016

Team Member | CE 24: Providing Clean, Safe Water for Developing Countries

- Lab tested ceramic, membrane, and biosand filtered water for E.coli bacteria
- Presented a Carancas, Venezuela case study on high arsenic levels in local water sources
- Designed and constructed a biosand filter

### **Biogas Research at Pt. Reyes Dairy Farm | Lafayette, CA**

January 2015 - June 2015

Independent Research and Presentation | Acalanes High School

- Investigated chemical interactions in anaerobic digestion to understand the formation of biogas
  - Analyzed three different anaerobic digester designs for efficiency and output
  - Presented a model and poster on an anaerobic digester from a local dairy farm at a symposium
- 

## **EXPERIENCE**

### **Berkeley Energy and Resources Collaborative (BERC) | UC Berkeley**

May 2017 - Present

Active Member | BERC

- Organize lectures and discussions on a wide range of energy and resource related topics
- Constructed policy memo for ZEV Policy in Washington State

### **Solar Spring Break | Oakland, CA**

April 2017 - May 2017

Team Member | GRID Alternatives & Student Environmental Resource Center (SERC)

- Installed solar panels in low income neighborhoods through Grid Alternatives
- Fundraised \$10,000 to purchase solar panels for project
- Networked with renewable energy and solar tech companies

### **The Music Connection | UC Berkeley**

May 2017 - Present

After School Coordinator (Board Member) & Private Piano Tutor | The Music Connection

- Organize after school tutoring sites with local public schools within the Oakland/Berkeley area
  - Communicate with directors and tutors through email and in-person to organize events
  - Teach music theory and piano/saxophone to local elementary school children
- 

## **VOLUNTEER**

### **Refugee Relief | Glyfada, Greece**

May 2016

Volunteer | Klesis Christian Fellowship

- Worked with Alliance Relief, Center 68, and local church to provide relief to Elliniko Refugee Camp
- Developed relationships with refugees and local business owners in the area

### **Chinaway Summer Education Program | Chengdu, China**

June 2015

Volunteer Teacher | Chinaway

- Taught English class to low income children in the area for 8 hours a day