

Andrew Chow

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EDUCATION

University of California, Berkeley

B.S. Sustainable Engineering through the Conservation and Resource Studies Program 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

May 2017 - Present	Engineering Design Team- Panama Design Team Member, Engineers Without Borders <ul style="list-style-type: none">• 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	Berkeley, CA
January 2016 - May 2016	Water Filtration Design for Developing Countries Course Team Member CE 24: Providing Clean, Safe Water for Developing Countries <ul style="list-style-type: none">• 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	Berkeley, CA
May 2017 - Present	Floating Wetland Project Design Team, Website Lead, Fundraising Lead Engineers for a Sustainable World <ul style="list-style-type: none">• 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	Berkeley, CA
January 2015 - June 2015	Biogas Research at Pt. Reyes Dairy Farm Independent Research and Presentation, Acalanes High School <ul style="list-style-type: none">• 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	Lafayette, CA

EXPERIENCE

May 2017 - Present	Berkeley Energy and Resources Collaborative (BERC) Active Member BERC <ul style="list-style-type: none">• Organize lectures and discussions on a wide range of energy and resource related topics• Constructed policy memo for ZEV Policy in Washington State	Berkeley, CA
April 2017 - May 2017	Solar Spring Break Team Member GRID Alternatives & Student Environmental Resource Center (SERC) <ul style="list-style-type: none">• 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	Oakland, CA
May 2017 - Present	The Music Connection After School Coordinator (Board Member) & Private Piano Tutor The Music Connection <ul style="list-style-type: none">• 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	Berkeley, CA

VOLUNTEER

May 2016	Volunteer, Refugee Relief Volunteer Klesis Christian Fellowship <ul style="list-style-type: none">• 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	Glyfada, Greece
June 2015	Volunteer, Chinaway Summer Education Program Volunteer Teacher Chinaway <ul style="list-style-type: none">• Taught English class to low income children in the area for 8 hours a day	Chengdu, China