

Andrew Chow

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EDUCATION

University of California, Berkeley – College of Natural Resources

August 2016 - Present

Major: Sustainable Engineering through the Conservation and Resource Studies Program

Expected graduation: May 2020

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

Relevant Coursework:

Chemistry 1A: General Chemistry	Calculus I,II, and III	Linear Algebra and Differential Equations
ME 40 (Thermodynamics)	Engineering 7 (Matlab)	Physics 7B: Heat, Electricity and Magnetism
Biology 1B: Evolution, Ecology, Plants	ER100 (Energy and Society)	Physics 7A: Mechanics and Wave Motion
EE 16A (Electrical Engineering/Designing Information Devices and Systems)		

Relevant skills: Familiar with MATLAB, Microsoft Word, Powerpoint, Excel

WORK EXPERIENCE

May 2017 - Present	Engineering Design Team- Panama <i>Design Team Member, Engineers Without Borders</i> <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	<i>Berkeley, CA</i>
May 2017 - Present	Berkeley Energy and Resources Collaborative (BERC) <i>Active Member, BERC</i> <ul style="list-style-type: none">• Attend and participate in discussions on wide range of energy topics• Constructed policy memo for ZEV Policy in Washington State	<i>Berkeley, CA</i>
April 2017 - May 2017	Solar Spring Break <i>Team Member, GRID Alternatives</i> <ul style="list-style-type: none">• Fundraised \$10,000 to purchase solar panels for project• Installed solar panels in low income neighborhoods through Grid Alternatives• Visited Renewable Energy and Solar Technology Companies	<i>Oakland, CA</i>
May 2017 - Present	The Music Connection <i>After School Coordinator and Private Piano Tutor, The Music Connection</i> <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	<i>Berkeley, CA</i>

PROJECTS

May 2017 - Present	Floating Wetland Project <i>Active Member, Engineers for a Sustainable World</i> <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	<i>Berkeley, CA</i>
January 2015- June 2015	Biogas Research at Pt. Reyes Dairy Farm <i>Independent Research and Presentation, Acalanes High School</i> <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	<i>Lafayette, CA</i>
January 2016- May 2016	Water Filter Design and Construction <i>Team Member, Providing Clean, Safe Water for Developing Countries</i> <ul style="list-style-type: none">• Lab tested ceramic, membrane, and biosand filters for E.coli bacteria• Presented a Carancas, Venezuela case study on high arsenic levels in local water sources• Designed and constructed a biosand filter	<i>Berkeley, CA</i>