

Austin Lemire

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EDUCATION

University of California, Davis Civil Engineering

Graduation June 2016

Researcher, Department of Civil/Environmental Engineering

2015-Present

- Design of lumped parameter models for mean residence time distributions of groundwater samples with the use of Helium 4 and Carbon 14 isotopes

Field Research

2013

- Analyzed and documented the effects of eutrophication on waterway and proposed solutions

Related Coursework

Lake Eutrophication | Water Management | AutoCAD | Fluid Mechanics | Chemistry | Cell Processes | Matlab Programming | R Programming | Classical Physics | Stress/Strain Equations | Material Science | Engineering Statistics | Differential Equations | Vector Calculus | Multivariable Calculus | Linear Algebra

Sacramento Municipal Utility District Youth Energy Summit

2011 - 2012

Engaged in hands-on energy related workshops; studied solar energy, waste management, and transportation

California State University, Sacramento Architecture, Construction, Engineering Summer Program 2011

Competed in teams in response to RFP, developed and constructed components, and formally presented design

EXPERIENCE

Intern, Tetra Tech, Rancho Cordova, CA

2015-Present

- Read reports and proposals regarding groundwater and soil contamination for project sites
- Use GIS software provided by USGS to survey project sites; create hydrographs of dam flow rates

Lifeguard, University of California, Davis, CA

2014-Present

- Earned "Employee of the Year" Award
- Make swift decisions to respond to emergencies and provide follow-up with documentation
- Scrutinize deck and pool to prevent accidents, resolve pool contamination, provide safe use of equipment

Developer, Designer and Shaper, Going Coastal Longboards, Galt, CA

2009-Present

- Design, cost, construct, and shape custom longboard skateboards to customers' specifications
- Received 1st Place Mechanical Engineering, Sacramento County Fair for my "sustainable" longboard

Student Assistant II, University of California, Davis, CA

2013-2014

- Ensured proper use of chemicals, supplies, and equipment, and maintained various stations in building
- Prepared halls for classes and set up facilities for meetings, conferences and events; secured facilities

Lifeguard and Swim Instructor, Gora Aquatic Center, Galt, CA

2009-2013

Lifeguard and Swim Instructor, Merryhill Schools, Elk Grove, CA

2012-2013

- Supervised pool, deck and water slides to ensure a safe environment; carried out emergency procedures
- Performed chemical composition tests and maintained records; administered swim lesson program

President, Architecture, Construction, Engineering Program, Galt, CA

2011

- Earned regional "Leadership Award," led team response to RFP to earn "Best Team Design Award"

EXTRACURRICULAR ACTIVITIES

American Water Works Association

American Society of Civil Engineers

Putah Creek Council Volunteer

SCUBA Open Water Certified