

OBJECTIVE

To hone and utilize my analytical and technical ability in an environmental engineering capacity; to seek sustainable solutions to aquatic and atmospheric processes in a setting with creative colleagues and interdisciplinary groups.

EXPERIENCE & PROJECTS

U.S. ENVIRONMENTAL PROTECTION AGENCY San Francisco/Los Angeles, CA

Engineer Technician, Office of the Regional Administrator

Summer 2010 - Present

- Member of the Southern California inter agency Dredged Material Management Team (DMMT); duties include review, comment on, approve, and/or deny Sampling and Analysis Plans and projects for Southern California dredging activity
- Investigated vegetative barriers to reduce diesel PM along the San Bernardino BNSF Rail Yard and created a rapport with community groups and agencies to address technical and logistical issues of the project
- Evaluated 2009 Targeted Site Investigation and researched funding sources, remediation techniques, and partnerships to use urban agriculture as a means to remediate a brownfield in San Bernardino, CA
- Clean Water Act inspector for Storm Water Pollution Prevention (SWPP) Plan compliance; inspected the Union Pacific Rail Yard in Commerce, CA which resulted in an Administrative Order to Union Pacific
- Project lead for a Communities and Ecosystem Division professional development course in San Bernardino, CA for community health workers as part of a national outreach to environmental justice communities
- Developing agency proposals for integration of Health Impact Assessments into the National Environmental Policy Act

CENTER FOR ENVIRONMENTAL RESEARCH & TECHNOLOGY Riverside, CA

Research Assistant

September 2009 - Present

- Designing an aerosol internal mixing device to study the aging process of atmospheric black carbon
- Part of a highly energized, cutting edge research team analyzing atmospheric pollution and its health impacts
- Researched and identified potential relationships of pesticides, surfactants, and human health in Southern California
- Examined methods for measuring black and brown carbon along the I-710 goods movement route

FIRST LEGO LEAGUE/SAN BERNARDINO COMMUNITY COLLEGE Inland Empire, CA

Judge, Mentor, Awards Presenter

August 2009 - Present

- Volunteer for at risk children and underserved communities at robotics events which are designed to spark interest in science and engineering; I motivate, coach, mentor, present awards, and serve as a positive role model for the students

SELF EMPLOYED/UNIVERSAL RECORDS Nationwide

Tour Manager & Audio Engineer

March 2001 - January 2006

- Managed national and international tours for modern rock artists and acts; duties included overseeing logistics, travel, crew, production, contract fulfillments, PR events, and budgeted high profile six figure tours
- Point of contact for venues, promoters, labels, media outlets, and artist across 49 states and 4 countries

EDUCATION

UNIVERSITY OF CALIFORNIA RIVERSIDE Bourns College of Engineering

B.S. Environmental Engineering, GPA: 3.96

Anticipated Graduation: June 2012

Relevant Coursework: Analytical Methods for Chemical and Environmental Engineers, Air Pollution Engineering, Technology of Air Pollution Control, Green Engineering, Water Quality, Water Quality Systems Design, Unit Operations

TECHNICAL TRAINING & TRANSLATIONAL SKILLS

- MAAP, HPLC, UV-Vis, AAS, GC, CCNC, SMPS, VTDMA and HR ToF AMS equipment experience
- Familiar with MATLAB, MathCad, Java, C programming
- CWA/NPDES Inspector Certification
- Strong public speaker and effective community liaison
- Adaptable: I work well in team and independent settings

HONORS & ACTIVITIES

- Awarded College Cost Reduction and Access Act (CCRAA) Research Scholarship (2009, 2010, 2011)
- 2011 Krieger and Stewart Scholarship Award Recipient for academic merit and involvement with water quality
- Tau Sigma National Honor Society, Sigma Alpha Lambda National Leadership and Honors Society
- UCR Student Conduct Committee Member which hears formal academic misconduct cases for the University
- 2009 UC Merced Amnesty International President
- Awarded NSF Graduate Research Fellowship, 2012
- 2012 Intel Environmental Innovation Award
- Kickboxer (I am not that good, but I really enjoy it!)
- Accepted 2010 U.S. EPA Region 9 Superior Achievement Award for my contribution to the RCRA Waste Division
- 2010, 2011 FLL Outstanding Volunteer Award for working with underserved grade school children
- Member of Engineers Without Borders-USA
- National Society of Professional Engineers Member