

Environmental Elsa

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EDUCATION

University of Southern California (Los Angeles, CA)
Cumulative GPA: 3.41/4.0

B.S. Environmental Engineering
Expected Graduation Date: May 2017

TECHNICAL EXPERIENCE

Air Quality Associate Intern, Environboll

May 2016 — August 2016

Los Angeles, California

- Used various computer programs, including CalEEMod, HARP2, and Breeze, to estimate NO_x, SO_x, CO₂, VOC, and other toxic air contaminant emissions for existing facilities and proposed construction projects in Southern California
- Completed multiple air quality permit applications for facilities in Southern California by critically reviewing and interpreting local, state, and federal environmental regulations
- Assisted in computer modeling of air pollution dispersion to evaluate pollution control measures of manufacturing facilities

Undergraduate Research Intern, DEF Program

June 2015 — August 2015

University of California, Berkeley; Department of Civil & Environmental Engineering

- Aided postdoctoral student in the collection of solar simulator data to develop a photo-action spectrum model for the easier prediction of pathogenic bacteria inactivation rates in open-water unit process treatment wetlands
- Designed experiments to calculate the apparent inactivation rates of *E. coli* on three different growth media

INROADS Safety Engineer Intern, GHI Pile & Wheeler

June 2014 — August 2014

Oklahoma City, Oklahoma

- Supported Coatings Operations, Warehouse and Logistics Operations, and Heavy Maintenance Centers in the inspection and improvement of environmental, health and safety programs to ensure regulatory compliance
- Created a database which could serve as a centralized location to house all environmental, health and safety legal documents, aids, and resources for the entire Oklahoma City site
- Compiled environmental impact reports monitoring water and air pollution, energy consumption and waste production

LEADERSHIP EXPERIENCE

Vice President, Society of Hispanic Professional Engineers (SHPE)

May 2015 — May 2016

- Implemented *Strategic Planning* to initiate new programs and events to advance the success of the SHPE-USC chapter
- Raised over \$13k in corporate sponsorship to support all members in academic, professional, and leadership advancement
- Represented the organization at key meetings including those with the USC Viterbi Presidents Council, SHPE National Meetings, and in meeting new corporate representatives

Chair, Academic Excellence, Society of Hispanic Professional Engineers (SHPE)

May 2014 — May 2015

- Executed academic success workshops that focus on increasing overall membership GPA through effective study and organization tips, as well as providing members with information on academic resources on campus
- Organized 26 weekly SHPE Study Nights with available tutors to assist members with individual and group class assignments

Internal Affairs Coordinator, Society of Hispanic Professional Engineers (SHPE)

April 2014 — May 2015

- Organized biweekly general body meetings for members that spanned from corporate recruitment to leadership workshops
- Implemented new freshmen and transfer student recruitment strategies which resulted in membership increase of 15%

EXTRA-CURRICULAR ACTIVITIES

Viterbi Student Ambassador, USC Viterbi Undergraduate Admissions

May 2015 — Present

- Organized 40+ engineering student organizations and projects for exhibition at USC's largest recruitment event, *DiscoverUSC*
- Served as the Host Team Coordinator for the *ExploreUSC* program, matching over 100 hosts with visiting high school students for 10 overnight sessions

Mentor, Center for Engineering Diversity (CED) Circles

April 2015 — Present

- Monthly meetings with mentees who are newly admitted underrepresented USC Viterbi freshmen and transfer students
- Advise mentees on engineering curriculum, internship opportunities, research experience and effective study strategies

SKILLS

- Programming capability in Matlab for use with engineering calculations and design problems
- Experience using CalEEMod, HARP2, and Breeze for use with emission estimates and dispersion modeling
- Will sit for the **Fundamentals of Engineering** examination in spring 2017
- Advanced expertise in Microsoft Word, PowerPoint, Excel, Access and Publisher