

JACOB MILLER, EIT

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OBJECTIVE

Water Resources Engineer position with Black and Veatch

EDUCATION

California Polytechnic State University, San Luis Obispo
Bachelor of Science in **Civil Engineering**, June 2012
Specialization in Water Resources

Overall GPA: **3.6**
EIT Certified # **119950**

CIVIL ENGINEERING EXPERIENCE

Summer Intern

June – September 2011

California Regional Water Quality Control Board - San Luis Obispo, CA

- Updated and maintained web-based database for MTBE contaminated soil and groundwater sites
- Created reports of contaminated sites that are submitted to the State Board
- Created mass mailings for water purveyors on contaminated UST sites
- Filed reports and technical communication regarding site remediation
- Trained new personnel on software programs

Engineers Without Borders, Cal Poly Chapter

March 2010 - December 2011

- Collaborated in a team of 12 to design and install an efficient, appropriate, and locally sustainable water delivery system in El Salvador, Central America

Project Experience - Cal Poly

- Developed and presented Statement of Qualifications, estimated run-off and designed storm water discharge system for highway, ramps, and bridge using Caltrans and FHWA standards. Also created a Storm Water Management Plan in collaboration with existing local and statewide plans to comply with NPDES requirements.
- Designed water distribution network for an urban neighborhood including elevated storage, pumping station, and fire protection for an elementary school.
- Conducted a hydrologic frequency analysis for the Nooksack River (WA) using probability distributions based on historical gage data and using the U.S. Water Resource Council method.
- Analyzed coastlines for maximum wave run-up and overtopping based on forecasted, wind-generated waves and used analysis to determine set-back distances and pile elevations.

TECHNICAL SKILLS

STAAD.Pro, AutoCAD 2000, Matlab, Microsoft Word/Excel/PowerPoint

LEADERSHIP AND INVOLVEMENT

Chi Epsilon, National Civil Engineering Honor Society

Eagle Scout – Boy Scouts of America

Interests: Golfing, racquetball, camping, and traveling (have travelled to 13 countries)

WORK EXPERIENCE

Civil Engineering Department – California Polytechnic State University – San Luis Obispo, CA

Hydraulics Laboratory Assistant / Grader (5 to 7 hours per week)

March 2010 - Present

- Perform data analysis on laboratory data collected by students
- Grade laboratory reports based on correctness and format

Customer Service Associate, Rite Aid, San Luis Obispo, CA

November 2008 – August 2009

Gained valuable communication skills; worked 20-25 hours per week while attending school full-time