

Jacob Miller, EIT

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Education

Southern Illinois University (SIU), Carbondale, IL
Bachelor of Science in Civil Engineering, June 2012
Specialization in Water Resources

Overall GPA: 3.6/4.0
EIT Certified # 119950

Civil Engineering Experience

Project Experience – SIU

Spring 2012

- 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 setback distances and pile elevations.

Summer Intern

June 2011 – 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, SIU 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

Other Work Experience

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

March 2010 - Present

Civil Engineering Department – Southern Illinois University – Carbondale, IL

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

Customer Service Associate / Rite Aid (20 to 25 hours per week)

November 2008 – August 2009

Book Store - Carbondale, IL

- Gained valuable communication skills while serving a diverse group of clientele

Technical Skills

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

Leadership and Involvement

Chi Epsilon, National Civil Engineering Honor Society

October 2011

Eagle Scout – Boy Scouts of America

August 2010

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

November 2011