

Jacob Miller, EIT

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Summary

Dedicated and results-driven Civil Engineer specializing in Water Resources and EIT-certified (#119950). Strong technical proficiency in STAAD.Pro, AutoCAD, Matlab. Experienced in collaborating and committed to excellence in both professional and community roles with interests in outdoor activities and global travel.

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