Elena Thomsen, EIT

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APPLIED SKILLS

Analyze and solve engineering design problems

Write accurate and detailed Standard Operating Procedures

Collect and monitor control system data and compile reports

AutoCAD, ArcGIS, MS Word, Excel, PowerPoint, Access, MATLAB, PI

EDUCATION

Bachelors of Science, Civil Engineering – June 2015 University of California, Davis

Current GPA: 3.36

AWARDS AND HONORS

UC Davis Student Employee of the Year 2014-2015

Dean's List, Fall 2014 & Winter 2015

MEMBERSHIPS

Chi Epsilon, Civil Engineering Honor Society, Spring 2014-Present

Society of Hispanic Professional Engineers, Summer 2013-Present

Society of Women Engineers, Summer 2012-Present

SUMMARY OF QUALIFICATIONS

- **Utility System Operation**: currently employed as intern with large power distribution facility
- **Relevant Coursework**: Structural Analysis, Engineering Hydraulics, Soil Mechanics, Groundwater Systems Design, Pavement Engineering, Air Pollution, Construction Principles and Project Management, Transportation Systems Operations, Foundation Design, Hydraulic Structure Design
- **Communication and Teamwork**: three years of success at Nugget Markets, an organization known for employee teamwork and high quality customer service

EXPERIENCE

Utilities Engineering Intern, UC Davis, CA | July 2014-Present
Compile and analyze data from campus-wide metering equipment using real time data and events management system.

- Work with data collection and analysis software and control, instrumentation and metering systems
- Created Excel macro to compile and calculate monthly campus water use data
- Conduct analysis of equipment and system performance and efficiency on over 1000 utility meters
- Organized and able to independently manage tasks and stay on schedule

Groundwater Age and Sustainability, Research, UC Davis | Winter 2015-Present
Used data from USGS to fit models to groundwater age distributions. Created poster containing findings and presented at UC Davis Undergraduate Research Conference.

- Review data on groundwater basins in California and conduct research to predict groundwater age and sustainability. Use data obtained from environmental tracer analysis to build groundwater age distribution models for California's Salinas Valley's groundwater basins.

Project Lead, Foundation Design for 1111 Broadway, Oakland, CA, Foundation Design, UC Davis | Winter 2015
Designed both mat and pile foundations for a building and made a recommendation based on the results.

- Used excel to analyze data from boring logs and do calculations in order to estimate settlements of a building on a mat foundation as well as on a pile foundation, and then wrote a professional report with final foundation recommendations

Redesign of Oakland Airport Pavement, Pavement Engineering, UC Davis | Fall 2014
Designed both rigid and flexible pavements for airport pavement to withstand certain loads and conditions.

- Used several pavement computer programs to run virtual tests on pavements to test different thicknesses of pavement and wrote a report recommending designs for both rigid and flexible pavements

Cashier Clerk, Nugget Market, Davis, CA | June 2011-June 2014
Provided outstanding customer service in a high sales volume store.

- Maintained customer focused attitude and utilized strong listening and verbal communication skills to ensure a positive experience for each patron and thrived

Intern, Intel Ultimate Engineering Program, Sacramento, CA | Summer 2012
Participated in six-week hands-on training program.

- Prepared and marketed new ideas for household products in a team and prepared a business plan to assist a non-profit organization improve outreach