M A P

MIDORI *ANNE PATTERSON, EIT*

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OBJECTIVE To obtain a full time position as a water resource engineer.

WORK EXPERIENCE

Dam Safety Engineering Intern – Denver Water 2017-Present

- Creating a cement and fly ash truck hauling schedule in order to sustain 900,000 CY of concrete production for the Gross Reservoir Expansion project
- Assists on weekly dam inspections around Colorado and writes subsequent reports
- Modelling and analyzing peak storm runoff and storage for Ralston Reservoir using HEC-HMS

Research Assistant - University of Colorado Engineering for Developing Communities Program 2016-2017

- Analyzed future Information and Communication Technology for Development (ICTD) projects to determine sustainability and feasibility
- Designed wireframe for mobile health application
- Supported interdisciplinary team and researchers with meeting and documentation logistics during the initialization of $15.3 million initiative for sustainable water and sanitation for development

Researcher - The Good to Great Project; Office of Jim Collins 2015-2016

- Researched multi-disciplinary topics in small groups and individually for Mr. Collins' future books
- Utilized written and verbal communication skills to provide weekly memos, 20+ page reports, and symposium presentations

Office Assistant - University of Colorado College of Engineering Dean's Office 2014-2015

- Evaluated all student organization websites for functionality, content, and design
- Created a web page layout for student organizations to use to create sustainable student organization web pages

LEADERSHIP AND VOLUNTEER EXPERIENCE

Engineers Without Borders (Peru Chapter) 2013-2017

- Traveled to Peru to assess the current water system functionality, interview community members, and meet with local government
- Designed pipeline river crossing to be implemented summer 2016
- Lead small team to coordinate data collection and design alternatives for a chlorination system to serve 800 residents

Water, Sanitation, & Hygiene Symposium 2014-2017

- Coordinated the 3rd-5th annual student-led WASH Symposium at CU
- Wrote and received $13,815 grant for the 2017 WASH Symposium

Mentor and Teaching Assistant - University of Colorado Global Engineering Residential Program 2014-2016

- Lead recitation and discussion about topics covered in the Meaning of Information Technology class
- Encouraged Spanish speaking while living with program's freshmen in Kittredge Central Hall

EDUCATION

University of Colorado, Boulder
Graduated May 2017
Major: Bachelor of Science in Civil Engineering with an emphasis in Water Resources
Minors: Global Engineering; Technology, Arts, & Media (TAM)
GPA: 3.67; College of Engineering Dean's List

HONORS AND AWARDS

Discovery Learning Award - University of Colorado, Boulder
Chi Epsilon – National Civil Engineering Honor Society

RELEVANT COURSEWORK

Hydrology, Groundwater Engineering, Fundamentals of Environmental Engineering, Groundwater Modelling, Water & Wastewater Treatment, Geotechnical Engineering

TECHNICAL SKILLS

MODFLOW, PMWIN Pro, HEC-HMS, Matlab, Mathematica, Microsoft Office, Revit, R

INTERNATIONAL EXPERIENCE

University of Carlos III
Madrid, Spain

- Lived in Madrid, Spain for fall 2015 semester
- Gained Spanish speaking skills while taking bilingual engineering courses

Earth University
Mercedes, Costa Rica

- Studied the local water, food, and energy nexus during May 2016
- Designed a gravity fed water transmission line for family farm

HOBBIES

Soccer (CU Women's Club Team)
Skiing/Hiking/Backpacking
Travelling
Photography