

DANIEL CUMMINGS

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EDUCATION

Northern Arizona University **Flagstaff, AZ**
Bachelor of Science in Environmental Engineering, May 2014
Minor: Mechanical Engineering
Credits Completed: 144.00

WORK EXPERIENCE

ANH Refractories - Corporate Headquarters Moon Township, PA
Corporate Environmental, Health and Safety Department Summer Intern, Summer 2013

- Assisted in plant TRI submittals, on-site plant reviews, site remediation investigations, and state and federal agency plant permitting.
- Aided in the creation of a plant-wide monthly water balance reporting system.

Horizon Moving Systems **Flagstaff, AZ**
Warehouse Asst., Crew member, Summer 2010-2012

- Provided residential and commercial relocation services as well as worked in warehouse storage operations

COURSE-LEVEL PROJECTS

Low-Cost Uranium and Arsenic Water Filtration Device, Fall 2013-Present

- Investigated current contamination of drinking water wells in former Bennett Freeze Zone on the Navajo Nation to find an adequate method of ensuring safe drinking water quality standards.

Theoretical Design of Landfill Located outside Pittsburgh, PA, Spring 2013

- Investigated suitable location of MSW landfill with respect to spatial and geotechnical components using Penn State's NRCS-based SoilMap Program.
- Designed landfill in conjunction with state and federal regulations using USACE Hydrologic Evaluation of Landfill Performance (HELP) Model for analysis.

Case Study of Coal Ash Impoundments, Spring 2012

- Investigated environmental impact of coal ash impoundment failures and analyzed solutions using regulatory action and alternative disposal methods.
- Delivered oral proposal and final recommendations as part of NAU Environmental Protection coursework.

Analysis of a Proposed Arizona Steel Company Flagstaff Location, Spring 2012

- Analyzed theoretical prospective plant location with respect to available transportation, tax incentives, labor force, utilities, and potential markets. Additionally, required air quality regulations applicable to the facility, facility permits, and necessary emission controls were evaluated. Gathered relevant cost and system information from manufacturer sales associate.

RELEVANT COURSES

Air Quality Engineering	Unit Operations in Envmtl. Egr.	Solid & Hazardous Waste Mgt.
Mechanics of Materials	Envmtl. Transport Processes	Geotechnical Engineering I
Engineering Design	Water Resources/Fluid Mechanics	Surveying
Environmental Protection: Rules & Regulations		Air Pollution Controls Design
Renewable Energy Unit Design	Municipal Engineering	Water/Wastewater Unit Design

SKILLS

Software: Microsoft Office, AutoCAD Civil 3D, LandGEM, HELP Landfill Model, BentleyFlowMaster
Instrumentation: Surveying equipment, Air Stripping Column in conjunction with Gas Spectrometer, Water Quality Laboratory Analysis

HONORS

Recipient, President's Scholarship, 2009-Present
Recipient, Boy Scouts of America Eagle Scout, 2005

REFERENCES

Terry E. Baxter, Ph.D., P.E.

Associate Professor Environmental Engineering
Northern Arizona University
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Director, Applied Microbiology and Biotechnology Laboratory
Part-time Professor Xi'an University of Science and Technology
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