

Nolan Welsh

Boulder , Colorado

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Skills

- Effective public speaking and presentation skills
- Proficient in writing and reviewing written reports and presentations
- Renewable Energy: proficient in energy data analysis, project siting, regulatory policy
- Proficient in the following computer programs: GIS, WellCAD, Adobe Photoshop, AutoCAD, Cloud Point, Microsoft Excel, Microsoft Office, Python, Data Acquisition Software, QuickBase

Education

University of Colorado, Boulder, Colorado **2023 - 2025**

Masters of the Environment. Specialization: Renewable and Sustainable Energy

Relevant Course Work: GIS, Python for Data Science, Project Development, Energy Markets, Microgrids, Energy Systems, Energy Policy

University of Notre Dame, Notre Dame, Indiana **2009 - 2013**

College of Engineering. Degree: Environmental Geosciences

Work Experience

Energy Analyst Intern, Peregrine Energy Solutions

Feb 2024- Dec 2024

- Analyzed the PJM regional transmission organization for ideal places to site utility scale battery storage.
- Compiled a comprehensive resource from state level policies and utility planning to demonstrate what regions in the PJM service area had best conditions for storage sites. Compiled facts in a way that employees new to the PJM region can understand the policy landscape.
- Created a new methodology for ranking target parcels for battery sites using a combination of Excel, GIS, and policy review, that simplified the previous process and allowed more sites to be screened.

Geophysical Engineer, Colog

Feb 2017- April 2023

- Worked as Geophysical Engineer in Lakewood, CO: Promoted from Field Engineer in Jan 2020
- Project managed long term jobs from cradle to grave, starting planning and cost estimates, organizing and performing data collection, processing the data for immediate client use, and writing reports and invoicing upon conclusion of the project to help clients interpret results and finalize quarterly costs.. Worked in mining, construction, geotechnical, water resource, and environmental fields.
- Designed a CRM system using QuickBase to help better manage the company's operations including equipment, personnel hours, scheduling, and invoicing.
- Created new automated processes with Python and Excel Visual Basic to decrease Company's data processing time and turn around data faster to clients.
- Assisted in managerial duties in Colog's satellite office in NV, AZ, and MS, helping managers with local projects and clients, hiring new talent, continuing employee training, attending local group meetings

Field Engineer, Colog**Feb 2017- Dec 2019**

- Worked as Field Engineer in Elko, NV
- Collected, processed, and presented borehole geophysical and hydrophysical data to mining, water, environment, and geotechnical clients in Northern Nevada and the surrounding region
- Assisted in managerial duties including scheduling employees 24/7, preparing bids and quotes for clients, and advising clients on the scope and scale of their geophysical needs
- Performed large scale geophysical jobs (running 6+ tools) solo, operating onsite for long hours with little to no supervision, managing and problem-solving issues with field equipment, while at the same time providing the client with quality and timely data

Lab Technician, Newmont Mining (Contract)**Feb 2016-Jan 2017**

- Worked as temporary Lab Technician for Newmont's Metallurgy and Geochemistry Labs
- Tested and reported on a new metallurgical device that will allow daily analysis on mining drilling operations, a process that currently takes several weeks
- Processed field samples to determine the presence of gold in exploration sites and existing mine expansions
- Assisted on chemical analysis projects to analyze the amount of hazardous metals and compounds present in mine waste, in order to advise on proper and environmental conscience disposal methods

Wireline Engineer, Schlumberger**Jan 2014-April 2015**

- Gathered petrophysical wellbore data for oilfield clients in Fort Morgan, CO
- Applied problem solving techniques to confront mechanical and software issues in a high paced environment, often several hours away from technical assistance, in order to minimize operation downtime
- Responsible for crew management and client communication on jobs to maintain safety, quality, and efficiency while dealing with hazardous material such as radiation and explosives on high-cost (\$100,000+) operations