Claire Elizabeth Kincaid

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Profile

Licensed PE specializing in mine design, optimization, and management for both surface and underground applications with focus on novel technologies and sustainability in mining and reclamation.

Licensure

Professional Engineer: Colorado 2024-Present
Candidate for PE/P.Eng: California, British Columbia, Yukon; *Decision Expected Q3 2025*

Work Experience

JDS Mining & Energy: Mine Engineer; *Vancouver, BC* 2023-Present
- Provide short term engineering and operational support to Mt. Polley mine in Likely, BC
- Design, optimize, and analyze economics of surface and underground mines PEA-FS levels
- Provide expertise on equipment technology in various mining applications including AI, wi-fi and telecommunications, fleet management, telematics, automation, and BEVs
- Write and present whitepapers on new technology applications and sustainability in mining

Epiroc Rock Drills, AB: Global Applications Specialist, Electrification and Automation; *Örebro, Sweden* 2021-2023
- Consult on performance of Epiroc machines and technologies in global underground applications
- Train development and sales engineers in principles of underground mining and tunneling
- Act as 'customer voice' in development and strategy meetings for future technologies

Valhalla Engineering Group: Mechanical Engineer; *Englewood, CO, US* 2020 – 2021
- Designed and analyzed HVAC and plumbing systems with the mechanical engineering team
- Assisted various engineering and architecture teams in drafting and administrative tasks
- Trained in project and model management

Komatsu America Corp: Graduate Applications Engineering Intern; *Multi-location, US* Sum 2019
- Consulted on equipment needs for various customers, reported on productivity and OPEX
- Consulted on equipment use for customers onsite at various mines in the Southeast United States.
- Assisted test engineers in installing and testing new modifications to equipment prototypes

Resolution Copper Company: Mining Engineering Intern; *Superior, AZ, US* Sum 2018
- Conducted 2018 Joint Analysis Study and investigate tunnel wedging and factor of safety
- Reviewed and logged Magma data to establish baselines for environmental management
- Reviewed 2018 Tunnel Boring Machine state of the industry, reported on business opportunities

Olin College of Engineering: Advanced Mathematics Teaching Assistant*; Needham, MA, US* 2016 - 2019
- Assisted in teaching application and analysis of advanced mathematical principles to circuitry, robotics, computer science, and mechanical design.
- Assisted in curriculum development and iterative improvement of overall course structure
- Discussed student and class progress, understanding, and problems with instructors to assist in understanding of teaching effectiveness and areas of importance

Research and Project Experience

Graduate Thesis: Diversity & Inclusion in the Mining Industry; *Golden, CO, US* 2019 – 2021
- Determine the current state of diversity and inclusion in the mining industry
- Determine Diversity & Inclusion best practices in the mining industry via program case study

Graduate Research: SR-Hybrid and Electric Vehicles for Underground Mining; *Golden, CO, US* 2020 - 2021
- Review testing data for several prototype SR-Hybrid and Battery Powered LHDs
- Refine numerical model to calculate efficiency and fuel consumption of prototype LHD models
- Create user interface to enable sales engineers and customers to calculate efficiency and productivity

Education

Colorado School of Mines: *Golden, CO* 2019 – 2021
- Masters of Science in Earth Resources Development Engineering
- Cumulative GPA: 3.65

Olin College of Engineering: *Needham, MA* 2015 - 2019
- Bachelors of Science in Mechanical Engineering; Grand Challenge Scholar
- Cumulative GPA 3.67

Core Competencies

CAD/CAM: Deswik.CAD/.Sched/.IS, Vulcan, MS3D, AutoCAD, Civil 3D, Revit, ONSHAPE, FEA/FEM
Simulations: VentSim, MineSim, Epiroc TMS, Simmine, AmpL
Programming: Excel Solver, Microsoft VBA, Python, MATLAB, Mathematica, LaTeX, R, MiniTab, Arduino C
Language: Intermediate-Advanced Japanese, Professional Swedish, Fluent English
Soft Skills: Presentation & Reporting, Cultural Flexibility, Direct & Indirect Management, Collaborative Teaming