
Claire Elizabeth Kincaid

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Profile

Mining engineering EIT, specializing in mining equipment, mine design, and mine management with a focus on equipment utilization, including an excellent understanding of fleet management and communications systems.

Education

- Colorado School of Mines, Golden, CO** 2019 – 2021
- Master's of Science in Earth Resources Development Engineering
 - Cumulative GPA: 3.65
- Olin College of Engineering, Needham, MA** 2015 – 2019
- Bachelor's of Science in Mechanical Engineering; Grand Challenge Scholar
 - Cumulative GPA 3.67
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Work Experience

- JDS Mining & Energy:** Mining Engineer; *Vancouver, BC; Likely, BC, Broomfield, CO* 2023-Present
- Provide short term engineering and operational support to Mt. Polley mine in Likely, BC
 - Provide expertise on equipment technology in a variety of mining applications, including wifi, fleet management, telematics, automation, and battery electric vehicles
 - 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 proxy in development and strategy meetings for future technologies
- Valhalla Engineering Group:** Mechanical Engineer; *Englewood, CO, US* 2020 - 2021
- Design and analyze HVAC and plumbing systems with the mechanical engineering team
 - Assist various engineering and architecture teams in drafting and administrative tasks
 - Train in project and model management
- Komatsu America Corp:** Graduate Applications Engineering Intern; *Multi-location, US* Sum 2019
- Consult on equipment needs for various customers, reported on productivity and OPEX
 - Consult on equipment use for customers onsite at various mines in the Southeast United States.
 - Assist test engineers in installing and testing new modifications to equipment prototypes
- Resolution Copper Company:** Mining Engineering Intern; *Superior, AZ, US* Sum 2018
- Conduct 2018 Joint Analysis Study and investigate tunnel wedging and factor of safety
 - Review and logged Magma data to establish baselines for environmental management
 - Review 2018 Tunnel Boring Machine state of the industry, reported on business opportunities
- TE Connectivity:** Product Engineering Intern; *Harrisburg, PA, US* Sum 2016
- Design and execute experiment for change of raw materials for impact manufacturing
 - Interface with customers and engineers to solve problems and meet needs of new customers
- Olin College of Engineering:** Advanced Mathematics Teaching Assistant; *Needham, MA, US* 2016 - 2019
- Assist in teaching application and analysis of advanced mathematical principles to circuitry, robotics, computer science, and mechanical design.
 - Assist in curriculum development and iterative improvement of overall course structure
 - Discuss student and class progress, understanding, and problems with instructors to assist in understanding of teaching effectiveness and areas of importance
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Research and Project Experience

- Graduate Thesis: Diversity & Inclusion in the Mining Industry** 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
- SR-Hybrid and Electric Vehicles for Underground Mining** 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
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Core Competencies

CAD/CAM: AutoCAD, Civil 3D, Revit, SOLIDWORKS, PDM, ONSHAPE, PTC Creo, FEA/FEM

Mining & Scheduling Software: Minesight 3D, Vulcan, SimMine, Shotplus, Drill Manager, PCBC, AmpL

Programming: Excel Solver, VBA, MATLAB, Mathematica, LaTeX, Python, R, MiniTab, Arduino C, COMSOL

Language: Intermediate-Advanced Japanese, Professional Swedish, Fluent English

Technical Communication: Presentation, Reporting, Value Analysis, ROI Analysis, Technical Writing

Interpersonal: Interdisciplinary and Intercultural Communication, Indirect Management, Collaborative Teaming