
Geomechanical Engineer

Expertise	Geomechanics, Microseismics, Numerical Modeling
Education	B.Eng. (Mining), 2018 Laurentian University, Sudbury, Ontario, Canada
Registration	Registered Professional Engineer in the province of Ontario, Canada

Professional Experience

2021 – Present	Itasca Consulting Canada Inc., Sudbury, Ontario, Canada Geomechanical Engineer
2020 – 2021	Itasca Consulting Canada Inc., Sudbury, Ontario, Canada Rock Mechanics – EIT
2019 – 2020	Alamos Gold Inc., Island Gold Mine, Dubreuilville, Ontario, Canada Ground Control – EIT
2018 – 2019	KGHM Morrison Deposit, Levack, Sudbury, Ontario, Canada Ground Control Coordinator
2017 – 2018	Kirkland Lake Gold Macassa, Kirkland Lake, Ontario, Canada Technical Clerk

Project Experience

Itasca Consulting Canada Inc.

- Perform statistical data analysis on geotechnical core logs and strength testing results for QA/QC purposes and to provide rock properties input for numerical modeling.
- Using Rhino 7 to clean up mine geometry for numerical modeling.
- Using Griddle 2.0 create model geometries to allow for explicit numerical modeling of infrastructure and or mine structures.
- Slope stability analysis.
- Provide geomechanical support to mine sites in the form of ground control training, underground tours, and general labor.
- Construction and calibration of both Flac3D 7.0 and 9.0 numerical models both on a mine-wide scale design and specific infrastructure analysis using site observations, seismicity, and unusual occurrences.
- Numerical model interpretation to form recommendations on stress hazards, sequencing, stope sizing, pillar interactions, infrastructure placement, and impact of geological structures on mine excavations.

- Experience in geotechnical core logging.
- Content creator for Itasca Software (tutorials).

Alamos Gold Inc., Island Gold Mine

- Updated and wrote ground control processes and standards.
- Performed day to day ground control tasks (general inspections, stope and backfill inspections).
- Designed stope support (cable bolt design packages).
- Updated and managed the Ground Control Logbook.
- Worked with operations to perform geotechnical based investigations.
- Assisted in writing the Ground Control Management Program.
- Performed monthly quality control testing.
- Managed the daily tasks and expansion of the microseismic system.

KGHM Morrison Deposit

- Worked in the ground control department performing underground inspections.
- Performing and keeping track of backfill testing.
- Performing quality control pull tests on different bolts and observed installation.
- Issued rehab prints and helped manage the microseismic system.

Kirkland Lake Gold Macassa

- Worked with the geology and engineering departments using Deswick to repair block model solids with the purpose of turning a resource to a reserve.
- Worked with ground control, ventilation, and surveying departments both on surface and underground.