

Geotechnical Engineering

Expertise Geotechnical Engineering, Groundwater Hydrology, Rock Mechanics

Education M.S. (Geological Engineering, Rock Mechanics), 2010
University of British Columbia, Vancouver, British Columbia, Canada
B.S. (Geological Engineering), 2008
École Polytechnique de Montréal, Québec, Canada

Honors NSERC-IPS Grant, University of British Columbia (2008)

Professional Experience

2010 - Present *Itasca Consulting Group, Inc., Minneapolis, Minnesota*
Geomechanics Engineer

2010 *Diavik Diamond Mine, Diavik, Northwest Territories, Canada*
Contractor (April – May)

2009 - 2010 *University of British Columbia, Vancouver, British Columbia, Canada*
Research Assistant, Earth and Ocean Sciences Department

2008 - 2009 *Teacher Assistant, Earth and Ocean Sciences Department*

2007 - 2008 *Golder Associates, Montréal, Québec, Canada*
Intern

2007 - 2008 *Laforest Nova Aqua, Montréal, Québec, Canada*
Intern

Project Experience

Geotechnical Engineering: Developed an analytical geomechanical up-scaling approach using DFN models to study fractured rock masses in a continuum simulation. Conducted tunnel modeling to minimize differential displacements at the surface by using various digging patterns, liners, bolting patterns and excavation locations.

Field work has included open-pit mine mapping, mining method evaluations, sampling and site inspections.