

Kevin Houser
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Work Experience

Site Engineer, Dibco Underground Ltd.

January 2018 – Present

- Performed field surveys for surface and tunnel work with exact precision and accuracy using a *Leica* Total Station
 - Survey work included: shaft layout, pipe layout, completed tunnel/shaft as-built surveys, ground settlement monitoring assessment analysis using SMP's and SSP's, adjusting tunnel guidance system
- Created AutoCAD drawings for all phases of a project including: bidding, site layout and preparation, as-built drawings for tunnels and shafts, pipe layout, TBM modifications, and other drawings as required by the Project Manager
- Oversaw and designed portions of 3 projects using tunneling methods including: Roadhead machine, EPM TBM, Rock TBM, soft ground TBM, using supports such as wiremesh, and rockbolt, rib and board, steel liner and concrete segment.
- Researched and analyzed ground conditions from geotechnical reports to assess the size and types of shafts including: rectangular, circular, or elliptical shafts using rib and board, pile and lagging or secant wall methods.
- Researched and contacted over 200 subcontractors and suppliers to source quotes and estimates for project bidding in Canada and in the United States
- Studied detailed engineering drawings, revised all technical specifications, design standards, and developed bill of quantities throughout the bid process for projects with value of up to \$130,000,000.00
- Supervised the night shift as required, recording mining and hauling time, while troubleshooting problems that arose
- Recorded daily logs such as water discharge, boulders, and ground movement for formal weekly reports

Junior Estimator/Field Coordinator, Toronto Zenith Contracting Ltd

May 2016 – December 2017

- Increased productivity led to a 15% increase in bids submitted year over year
- Used *Heavy Bid* software to price bids after researching potential municipal and provincial tender opportunities with bids up to \$80,000,000.00 in value
- Monitored several construction sites to track ongoing progress, spending, and production rates for future bids
- Collaborated with Project Coordinators to create long and short-term work schedules
- Coordinated with subcontractors, suppliers and testers for applicable work while supervising the Morningside Avenue Bridge Rehabilitation over Highland Creek Site
- Maintained detailed daily work records with the personnel on site, jobs performed, safety concerns, and deliveries

Assistant Driller, Profile Drilling (Mississauga, Ontario)

September 2015 – April 2016

- Managed/operated an environmental and geotechnical drill rig on sites throughout the GTA and Southern Ontario
- Established myself as a trustworthy and reliable assistant to the lead driller and field supervisor

Mine Surveyor, Agnico Eagle Mines

May 2014 – August 2014

- Used my French fluency to integrate myself into the remote community at the Meadowbank Mine
- Created 3-D models of the waste material dumps using a *Leica* Total Station TCRP 1205
- Assisted the geological and engineering departments to map the grade control packets and grade-bench tests
- Set drill-hole locations for blast pattern layouts using a *Trimble* TSC3 & R7/R8/R10 rover survey system
- Established surveyed limits and recorded material volumes during construction of the tailings pond infrastructure project
- Monitored the rising levels of the existing tailings pond using a *Maptek* Scanner I-site 8810

Camp Arowhon Summer Camp, Activity Head

June 2010 - August 2013

- Delegated a staff of eight peers while managing the dock safely with 0 accidents
- Performed frequent evaluations to help critique and motivate my team by constantly setting new goals
- Received an award for excelling in leadership and personal initiative by exceeding expectations

Additional Qualifications

- Basics of Supervising Training
- CPR – First Aid Training
- Working at Heights – Fundamentals of Fall Protection
- Traffic Control – Temporary Work Zones (book 7)

Education

Queen's University, Kingston, Ontario

September 2011 – June 2015

Bachelor of Engineering; Mining Engineering

- **Relevant Courses:** Underground Mining, Open Pit Mining, Mine Ventilation, Stability in Advanced Design, Rock Mechanics, Drilling and Blasting, Engineering Data Analysis, Mining Sustainability, Occupational Health and Safety

Project Work

- Participated in Engineering Practice design projects: creating the prototype of a cutting-edge mine helmet, and a comprehensive design of both open pit and underground mines
 - Underground project specialized in deep mine structural support analysis and recommendations.
- Preparing reports using Whittle, Surpac, Ventsim and RS2 (**Phase 2**) to analyze scenarios of different mine iterations

Lawrence Park Collegiate Institute, Toronto, Ontario

September 2007 – June 2011

- Graduated with honors in bilingual studies (English and French)