

Career Objective

I am a mining engineer, currently taking a master of applied science (M.Sc) at Queen's University in the field of mining engineering and automation. I plan to graduate in the summer of 2016 and bring with me a solid knowledge base and developed work ethic to the professional world of mining.

Skills

- Experience in the engineering department of KGMI's Sudbury Mines, McCreedy West and Craig mines. Tasked with training and leading a team of new surveyors while conducting surveys of underground advancements and publishing engineering prints using MineCAD design software.
- Underground work and leadership experience, common core training modules and limited heavy equipment operation experience.
- Strong time management skills developed in fourth year engineering. Completed a full mechanical design project with prototype, a theoretical underground mine design project and a practical thesis in a single semester. Averaged a grade of A- for all three projects.
- Very computer literate in C++, SQL and MATLAB and currently learning robot – OS. Also learning different applications of the Bayesian theorem to solve simultaneous localization and mapping (SLAM) problems.
- Fluent in French. Attended French immersion school from 4 to 16 years of age and have worked in French with coworkers in past jobs.

Relevant Experience

KGHM Int Engineering Department.....(2013, 2014)

- ⤴ Gained proficiency with MineCAD through 2, 4 month summer positions modifying drift designs and stope measurements at McCreedy West mine and Craig mine in Sudbury Ontario.
- ⤴ Practiced leadership and learned how to get work done in an office environment as a project coordinator for the implementation of a remote ventilation system at Craig mine.
- ⤴ Supervised and trained two interns in how to survey underground.
- ⤴ Helped survey and generate prints for over 20 working headings within a 3 day time frame every month for month-end tonnage reports. Also installed line and grade, performed CMS scans, DDH surveys, and even vent surveys.

Cementation Development Team at Totten Mine.....(2012)

- ⤴ Worked shift work on a Cementation drift development crew for 4 months in Vale's Totten Mine project in Sudbury Ontario.
- ⤴ My work consisted of fixing drills, hoist maintenance, shaft maintenance, equipment slinging, bringing gear to specific places on a level, hanging vent, water and air pipes in new drifts and assisting the experienced miners with their drilling/blasting equipment needs.
- ⤴ I learned how mines are built as well as maintained in a contractor work environment. This environment really reinforced the importance of camaraderie and situational awareness when executing a dangerous job safely.

Education

Master of Science and Engineering, Mining Engineering

Queen’s University, Kingston ON.....(2014 – 2016 Expected)

- ⤴ **Rolling Robotics:** Programming and design. Practice implementing Kalman filters and solving simultaneous localization and mapping (SLAM) problems.
- ⤴ **Vibration and signals analysis:** with a focus on condition monitoring, machine fault diagnosis and maintenance strategies.
- ⤴ **Engineering Analysis:** A class for solving complex, real world engineering problems with knowledge amassed throughout ones learning career.

Bachelor of Science, Mining Engineering (sub specialized Mining Mechanical)

Queen's University, Kingston ON.....(2010 – 2014)

- ⤴ **Mining** with sub-specialized mechanical option
- ⤴ **Underground Mine Design Course**, teaching me how to design an entire underground mine around an ore body from fleet sizing to sequencing to rock mechanics and more.
- ⤴ **Mechanical Design Course**, apply learned mechanical theory and new research to design a remotely operated survey machine.
- ⤴ **Open Pit Design**, teaching me pit limit analysis, dispatch and haulage optimization as well as mining sequence optimization using Whittle and the Lerch Grossman algorithm

Achievements/Awards

Intramural basketball champions.....(2013)

High school football City All-Star Team and best defensive lineman.....(2010)

Queen's university excellence entrance scholarship.....(2010)

Medallist in at least 10 separate high school jazz music festivals on the national level.....(2006-2010)

High school football city champions.....(2009)

Personal Details

Licences

- ⤴ Underground Common Core modules 0, 1, 2 and 12
- ⤴ Site specific Heavy equipment operator training for fork lifts, rock breakers and UT-99.
- ⤴ WHMIS
- ⤴ Fall Arrest Certification
- ⤴ G Drivers licence

Extra Curricula

- ⤴ Competitive Mountain Biking
- ⤴ Intramural Basket ball team
- ⤴ KGHM Dragon Boat Team
- ⤴ Outback Camping and Rock Climbing
- ⤴ Science Formal setup volunteer

References available upon request.