

# Gert Zwingenberger

Mining & Mineral Processing EIT

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Location: Vancouver, BC, V6S 0C5, Canada

## Mission Statement

Skilled mining and mineral processing engineering graduate with a diversified global background & experience in the mining and processing sector is looking to be a professional contributor in the global resource and engineering industry.

## Skill Set

Software		Projects	Laboratory Work	Languages	Other
Deswik CAD	Ventsim Visual 3	Mining PEA Studies	Drill Core Analysis	English - native	Technical Writing
Deswik Sched.	Mine2-4D	UG Mine Design	Coal Processing	Russian - native	Communication
Vulcan	EPS	Open Pit Design	Flotation Labs	German - native	Int'l work Experience
Surpac	Minesight	Drill & Blast Project	Physical	French - proficient	Willing to Travel
MS Office	AutoCAD	Automation Project	Comminution	Spanish - learning	Driver's License

## Areas of Expertise

UG Co/Mo	UG Au	UG Design & Dev.	Scheduling	Mine Planning	Industrial Minerals
PEA Studies	Open Pit Design	Mining Software	Financial Modelling	Maintenance	Ventilation
Translations	Manufacturing	Assembly	Estimations	Mineral Processing	

## Education

**2016 BSc – Mining & Mineral Processing Eng.** – University of British Columbia, Vancouver, Canada

- Minor in Commerce (Accounting, Marketing, Finance)
- Additional courses: Economics (Finance, Trade, Banking), Corrosion Engineering, Mine Finance.
- **Louis J. Gall Award in Mining Engineering** – Award for Leadership in Mining.
- **Certificate from Pushkin Institute Moscow** – Advanced Russian Language Knowledge (Cat. C1).

## Work Experience

**Mining Plus – Vancouver, Canada**

**October 2016 - Current**

### Mine EIT

- ✓ Underground Mine Design (Stope Optimization, Access & Development Design & Optimization) in Deswik, Datamine.
- ✓ Underground Development & Estimation of Mine Re-design (Underground, Co/Mo, Peru) with Deswik.
- ✓ Assisted completion of a PEA (Underground, Gold, Manitoba, Canada) with Excel, Deswik, Datamine.
- ✓ Geotechnical Translations (Russian-English) for underground gold mine.
- ✓ Assisted completion of a PEA (Equipment Selection, Ventilation Parameters & Estimations), including diesel vs electric scenario.

**Quarry & Mining LLC – RAK, UAE**

**July – August 2014**

### Engineering Intern

- ✓ Conveyor & accessories blueprints designed for 5,000 tpd mineral processing plant with AutoCAD.
- ✓ Supervised welding, transportation, erection and implementation of conveyor & housing infrastructure.
- ✓ Spliced and placed conveyor belts on site.
- ✓ Lived on-site (camp).

**ZF AG – Friedrichshafen, Germany**

**June – July 2014**

### Summer Labourer, Gear Manufacturing Unit

- ✓ Completed metallurgical testing for engine gears (train, truck & commercial cars).
- ✓ Manufactured gears with semi-autonomous machines and manual labour.
- ✓ Mechanical Testing of gears & engine parts.
- ✓ Shift Work.

**Johnson & Johnson – Moscow, Russia****June 2012 – August 2013****Marketing Intern (Ethicon Energy Subdivision) & Procurement Intern (MD&D Procurement Subdivision)**

- ✓ Marketed the applications of various surgical & medical equipment to doctors.
- ✓ Performed market and competitor analysis for the new product line.
- ✓ Created and updated the new medical supply and equipment catalogue for 2014.
- ✓ Translated & presented corporate Procurement operations from HQ (English – Russian).
- ✓ Prepared various tenders with a net worth of up to 5 million USD.
- ✓ Upheld vendor relationships & negotiated prices on behalf of Johnson & Johnson.

**Siemens AG – Berlin, Germany****June 2010 – July 2011****Engineering Intern**

- ✓ Constructed power delivery systems including sub-station, transformer and circuit breaker parts.
- ✓ Performed electric wiring & testing of vacuum circuit breakers.
- ✓ Mechanically manufactured vacuum circuit breakers at all parts of the assembly line.

**Technical Projects****Capstone Projects (Pre-Feasibility Study)**

- ✓ Two 250-page pre-feasibility projects were developed (open pit & underground, Au, Co, Mo).
- ✓ Performed the role of group leader, managed a team of 4.
- ✓ Each project included: Ore Body Modeling, Pit Optimization, Scheduling, Mineral Processing Plant Design, Costing, Market Analysis, Infrastructural Needs, Tailings and Water Treatment Facilities, Environmental and Societal Impacts.
- ✓ Simulated client-investor presentations were held for each project in class.

**Process Control Project**

- ✓ A mineral processing flowsheet was selected, designed and sized for a 4,000 tpd gold processing plant.
- ✓ Utilized IDEAS Software to model disturbances & implement autonomous controls.

**Physical Comminution Project**

- ✓ Physical comminution process was designed based on a 4,000 tpd copper ore feed.
- ✓ A full plant (crushing, grinding, flotation, re-grinding and dewatering) was sized and costed.

**Volunteer Work****CIM Representative for UBC**

- ✓ The CIM (Canadian Institute of Mining, Metallurgy and Petroleum) Representative of UBC.
- ✓ Intermediary between the industry and the university, marketing & promoting involvement in industry events.
- ✓ Organizer of volunteers for professional luncheons, dinners, and other events (2015-2016).

**Graduate Trip Fundraising Team [Mining Executive Council]**

- ✓ Raised 120% of the set goal for the trip (70,000 CAD).
- ✓ Called, visited, e-mailed potential donors, presenting our donation package & proposed field trip.

**Engineering Undergraduate Society [EUS]**

Roles: Social Coordinator, Social Coordinator's Assistant, Red Sales

- ✓ Ran the Engineering Undergraduate Society's Shop.
- ✓ Part of the EUS Innovation Team for new products & events.
- ✓ Organized social events for fellow students, aided in organizing the EUS's 95<sup>th</sup> Annual Engineering Ball.
- ✓ Organized five social events, obtained liquor licenses, organized security, including Engineering Week.

**Personal Achievements & Hobbies****Professional Affiliations**

Canadian Institute of Mining,  
Metallurgy & Petroleum (CIM)

Society for Mining, Metallurgy and  
Exploration (SME)

The Association for Mineral  
Exploration British Columbia  
(AMEBC)

**Certifications**

Certified First Aid (DAN+)

Pure Oxygen Administration (DAN+)

Neurological First Aid (DAN+)

Hazardous Marine Life (DAN+)

**Interests & Activities**

Scuba Diving (Certified Rescue Diver)

Sports (Snowboarding, Martial Arts, etc.)

Travelling

International Business & Economics