



## ***Résumé***

***Michael Harris***

***Senior Geotechnical  
Engineer***

## **Qualifications**

**BSc (Geology)  
Monash University 2003**

**Graduate Certificate in  
Mining Geomechanics  
Curtin University (WASM)  
2009**

**Member AusIMM**

## **Expertise**

- Geotechnical logging, both rock mass and structural logging
- Geotechnical mapping.
- Structural Analyses
- Open Pit and Underground Design
- Numerical Modeling
- Operational Geotechnical Support

## **Experience**

Michael has 12 years of experience of working in the mining industry on projects from around Australia and internationally. He has worked on a range of projects from feasibility studies to operational mines in both open pit and underground mines. Project experience includes

- **Geotechnical Logging** – Rock mass and structural logging for both open pits and underground mines in the feasibility stages
- **Structural Logging** – Identifying and logging structures of geological and geotechnical significance
- **Geotechnical Mapping** – For operational open pits and underground.
- **Stereographic Analysis** – Interpreting structural orientations and kinematic feasibility of structural sets
- **Wedge Failure** – Analysis of the stability and geometry of underground wedges
- **Televiewer Survey** – Interpretation of televiewer imagery
- **Laboratory Rock Testing** – Analysis of hard and soft rock properties including direct shear, triaxial and point load strength tests
- **Stope Design** - Analysis and design of underground stopes
- **Support Design** - Analysis and design of support requirements in varying conditions
- **Pit Design** - Analysis and design of pit walls
- **Decline Design** - Analysis and design of decline stability and support requirements
- **Numerical Modeling** - Both 2D and 3D numerical modeling of underground and open pit projects.
- **Operational Support** – Ongoing operational geotechnical support for both open pit and underground.

## **Background**

Michael gained a BSc degree in geology from Monash University. He then gained geotechnical logging experience at Leinster where he worked for BMGS on the Perseverance Deeps project till the end of 2005.

For the past seven years he has been employed with Dempers & Seymour and has worked on projects both for operational and feasibility studies in Australia and Overseas.

Projects worked on include Songvang (WA), CSA mine (NSW), Esperanza South (QLD), Diggers South (WA), Tim King Pit (WA), Spotted Quoll Underground (WA), New Morning Daybreak (WA), Santiago (WA), Santa Rita (Brazil), Tropicana & Havana (WA), Crossroads (WA), Mt Cattlin (WA), Wilga & Currawong (VIC), Yakabindie (WA), Jaguar (WA), Teutonic Bore (WA), Bentley (WA), Mt Gordon (WA), Mt Windarra (WA), Mt Marion (WA), McPhee Creek (WA), Glenburgh (WA), Yamana (WA), Rönnbäcken (Sweden), Carin Hill (SA), Mt Gibson (WA), Cerberus (WA), Kibali (DRC), and the Perseverance Deeps project.