



Resume

Eric (Yang) Lu

Geotechnical Engineer

Qualifications

BSc (Mining Engineering)
Henan Polytechnic University
2014

MSc (Subsea Engineering)
Curtin University 2017

Expertise

- Geotechnical core logging, both rock mass and structural logging
- Rock mass and Structural analyses
- Modelling Software – proficient in Rocscience Software Suite
- Drone photogrammetry

Experience

Eric has experience of working in the mining industry on projects around Australia. 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** – Rockmass 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 through core and photogrammetry.
- **Stereographic Analysis** – Interpreting structural orientations and kinematic feasibility of structural sets, including Planar sliding, Wedge sliding, Flexural Toppling and Direct Toppling
- **Laboratory Rock Testing** – Analysis of hard and soft rock properties including direct shear, triaxial and point load strength tests
- **Decline Design** - Analysis and design of decline stability and support requirements.
- **3D and 2D Modeling Software** – proficient in DIPS.
- **Drone photogrammetry** – full Quarry geotechnical inspection including photogrammetry (involving drone fly, fly-path setup via UGCS, QGIS), photo processing via Pix4Dmapper for the quarry 3D reconstruction, picking mapping disk via GEM4D, kinematic analysis in Dips & Swedge.

Background

Eric has gained a BSc degree in Mining engineering from Henan Polytechnic University in China and a MSc degree in Subsea engineering (Offshore oil and gas) from Curtin University in Australia. He has worked on the drill core logging on both rock mass and structure for one year in the mining industry. He has further experience in data analysis and modelling in using the software DIPS.

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