

Muhtada Felemban



Mining Engineer | Jeddah, Saudi Arabia | +966 552 264 061 | eng.muhtadafelemban@gmail.com

Summary

Mining Engineer (SCE Accredited) with a **4.61/5.0 GPA** and a proven track record in technical services and drill-and-blast optimization. Certified in **Deswik** and experienced in utilizing **O-Pitblast** and **Aegis** to drive operational efficiency, recently achieving a 10% reduction in secondary breakage costs. Focusing on short-term production scheduling and safety compliance. **Willing to relocate: Open to On-site, Remote, and FIFO roles.**

Education

- **Bachelor of Science in Mining Engineering | September 2020 – July 2025 | GPA: 4.61 / 5.0**
King Abdulaziz University, Jeddah, Saudi Arabia
Final Year Project: " Evaluation of Mining Systems Design and Mineral Processing at Bulghah Deposit in Saudi Arabia "

Experience

- **Mining Engineer at National Mining Company NMC | November 2025 – April 2026**
Design and simulate over 10+ monthly blast patterns; utilized **O-Pitblast & Aegis** to model fragmentation, resulting in a **10% reduction** in oversized boulders and secondary breakage costs.
Blast Engineering: Engineer detailed charge-up plans for production blasts; optimized powder factors by 5~8% through precise initiation sequencing and stemming calculations.
Schedule and Optimize short-term production activities (drilling, blasting, loading, hauling) using **Deswik** to maximize fleet efficiency and ensure **95%+ plan compliance** with weekly and monthly plan targets.
Conduct post-blast performance analysis, including fragmentation and vibration monitoring to mitigate environmental impact and ensure **0% exceedance** of regulatory PPV limits.
- **Mining Engineering Trainee at Maaden Barrick Copper Company MBCC | January 2025 – July 2025**
Automated routine data entry and reporting tasks using VBA, reducing a 4-to-5-hour manual process to just 3-to-5 minutes.
Updated and optimized production dashboards to provide real-time visibility into daily mining operations.
Assisted senior engineers with daily production data collection and analysis.
Supported the mine planning team in updating short-term mine plans.
Participated in site safety inspections and contributed to hazard identification reports.
Gained practical exposure to underground operation/process.

Skills

- **Technical Skills:**
Mine Design Principles, Drilling & Blasting Techniques, Mine Ventilation Analysis, Rock Mass Characterization, Slope Stability Assessment, Mineral Resource Estimation Basics, Mine Feasibility Study Components, Mine Safety Procedures (e.g., Hazard Identification, Risk Assessment), Surveying Techniques.
- **Software Proficiency:**
Mining Software: **Deswik** (Design & Scheduling), **Surpac** (Design), **O-Pitblast & Aegis** (Drilling & Blasting).
Data & Automation: VBA/Macros for Process Automation.
General: Microsoft Office Suite (Word, Excel, PowerPoint, Outlook).
- **Languages:**
Arabic: Native.
English: Professional Working Proficiency.
- **Licenses & Certifications:**
Comprehensive 85-hour training covering constitutive models, slope stability, and shoring systems from **Crest Academy**.
General Industry Safety and Health from **OSHA**.
Deswik.CAD / Sched Essentials from **Deswik**.