KYLE BRENNAN

DRILL & BLAST ENGINEER

CONTACT

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West Jordan, UT

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SKILLS

- Blast Design
- Drill Pattern Design
- Fragmentation Analysis
- Vibration Monitoring
- Explosives Management
- Split-Desktop
- AutoCAD
- Microsoft Excel
- MSHA Regulations
- Problem-Solving

EDUCATION

Bachelor of Science

05/2019

University of Utah

Salt Lake City, UT

Mining Engineering

CERTIFICATES

Engineer in Training (EIT)

09/2019

Utah Division of Professional Licensing

Blasters' Training Program

03/2021

International Society of Explosives Engineers

SUMMARY

Drill and blast engineer with 7 years in open pit copper and aggregate mining, designing blasts that move up to 400,000 tons per shot. Uses blast design software, fragmentation analysis and vibration monitoring to cut downstream cost and keep neighbors and highwalls safe. Holds an EIT and an MSHA surface training record.

EXPERIENCE

Drill & Blast Engineer 04/2022 - Present

Oquirrh Basin Mining West Jordan, UT

Large open pit copper mine running 6 production drills.

- Design **15** production blasts a week with drill pattern design, timing and powder factors set by rock type.
- Run fragmentation analysis with Split-Desktop after each shot, raising mill throughput 3% through finer feed.
- Manage vibration monitoring at 8 seismograph stations and keep every reading below the permit limit.
- Coordinate 6 drills and the explosives contractor, holding drilled inventory at 10 days ahead of the shovels.

Mining Engineer, Drill and Blast 06/2019 - 03/2022

Wasatch Aggregates Lehi, UT

Granite and limestone quarry group with 3 sites along the Wasatch Front.

- Redesigned face blasts for 3 quarries, cutting secondary breakage hours by 40% in the first year.
- Profiled 120 quarry faces with laser scans to set burden and avoid flyrock on bench edges.
- Tracked explosives management records and magazine counts to ATF and MSHA rules with clean audits.
- Built cost-per-ton reports in Microsoft Excel comparing emulsion and ANFO across seasons.

Mining Engineering Intern 05/2018 - 08/2018

Bingham Canyon Contractors Copperton, UT

Summer internship with a mine services contractor.

- Logged as-drilled depths for 40 patterns and flagged short holes before loading.
- Drafted 10 blast pattern maps in AutoCAD for the shot firer's daily briefing.
- Recorded seismograph readings from 4 stations and filed them for the county permit.