Robert J. Miller

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PROFESSIONAL SUMMARY

Licensed Mine Surveyor with over 12 years of experience in high-volume gold and copper operations. Expert in utilizing terrestrial LiDAR and GPS technology to maintain 99.9% accuracy in site mapping. Proven track record of improving production reporting efficiency by 15% through the implementation of automated volume calculation workflows.

WORK EXPERIENCE

Senior Mine Surveyor | Front Range Mining Resources | Leadville, CO
May 2018 - Present
- Managed all surveying operations for a large-scale molybdenum mine, ensuring 100% compliance with federal mapping regulations.
- Implemented a new UAV-based stockpile measurement system that increased volume calculation accuracy by 12% compared to traditional methods.
- Led a team of four junior surveyors in establishing primary control networks for a new $200 million pit expansion project.
- Reduced quarterly survey operational costs by $45,000 through the optimization of equipment maintenance schedules and vendor contracts.
- Created automated reporting templates in Surpac that saved the production department 10 hours of manual data entry per week.

Project Surveyor | Golden Valley Explorations | Elko, NV
Aug 2013 - Apr 2018
- Provided high-precision underground control for over 12,000 feet of new decline development with zero rework required due to misalignment.
- Developed and maintained the 3D site geological model, providing daily updates to the engineering team for active face advancement.
- Audited mineral production records against spatial extraction data, identifying a 5% discrepancy in reported ore grades and correcting royalty payments.
- Successfully managed the installation of an automated slope stability monitoring system at three high-risk pit walls.
- Conducted monthly reconciliation surveys for stockpiles totaling over 2 million tons of material.

Junior Mine Surveyor | West Coast Aggregates | Sacramento, CA
Jun 2010 - Jul 2013
- Performed daily topographic surveys using GPS and Total Station equipment to track excavation progress across five quarry sites.
- Assisted in the preparation of annual statutory mine plans for submission to state environmental agencies.
- Managed the digital archive of historical survey data, digitizing over 500 paper-based maps into a searchable GIS database.
- Calculated monthly inventory volumes for six different aggregate product types with a consistent variance of less than 1%.

EDUCATION

Colorado School of Mines | Master of Science | Mining Engineering
Aug 2008 - May 2010

Texas A&M University | Bachelor of Science | Geomatics and Surveying
Sep 2004 - May 2008

SKILLS

AutoCAD & Civil 3D, Deswik.CAD, Surpac, Terrestrial LiDAR Mapping, GIS Data Management, UAV / Drone Surveying, Total Station (Leica/Trimble), GNSS/GPS Positioning, Underground Control Surveys, Volumetric Calculations, Slope Stability Monitoring, Boundary Demarcation, MSHA/OSHA Regulations, Statutory Mapping Standards, Risk Assessment, Environmental Impact Tracking, Production Auditing

CERTIFICATIONS

Professional Land Surveyor (PLS) | Colorado State Board of Licensure (Nov 2015)
FAA Part 107 Remote Pilot Certificate | Federal Aviation Administration (Mar 2019)

LANGUAGES

English (Native)
Spanish (Professional Working Proficiency)

ACTIVITIES

SME Annual Conference
Regular attendee and occasional presenter at the Society for Mining, Metallurgy & Exploration annual events.

Volunteer Mountain Rescue
Utilizing topographic mapping skills to assist local search and rescue teams in high-altitude terrain.