James Aris

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PROFESSIONAL SUMMARY

Chartered Mine Surveyor with over 12 years of experience in high-volume gold and copper operations. Expert in utilising 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 | British Gypsum | East Leake, UK
May 2018 - Present
- Managed all surveying operations for a major underground gypsum mine, ensuring 100% compliance with HSE 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 £150 million mine depth expansion project.
- Reduced quarterly survey operational costs by £35,000 through the optimisation 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 | Anglo American | Whitby, North Yorkshire
Aug 2013 - Apr 2018
- Provided high-precision underground control for over 4km 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 high-risk shaft interfaces.
- Conducted monthly reconciliation surveys for stockpiles totalling over 2 million tonnes of material.

Junior Mine Surveyor | Tarmac | Buxton, Derbyshire
Jun 2010 - Jul 2013
- Performed daily topographic surveys using GPS and Total Station equipment to track excavation progress across five major quarry sites.
- Assisted in the preparation of annual statutory mine plans for submission to the Coal Authority and environmental agencies.
- Managed the digital archive of historical survey data, digitising 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

University of Exeter (Camborne School of Mines) | MSc | Mining Engineering
Sept 2008 - Jun 2010

Newcastle University | BSc (Hons) | Surveying and Mapping Science
Sept 2005 - Jun 2008

SKILLS

AutoCAD & Civil 3D, Deswik.CAD, Surpac / Micromine, Terrestrial LiDAR Mapping, GIS Data Management, UAV / Drone Surveying (CAA certified), Total Station (Leica/Trimble), GNSS/GPS Positioning, Underground Control Surveys, Volumetric Calculations, Slope Stability Monitoring, Boundary Demarcation, HSE / Mines Regulations 2014, Statutory Mapping Standards, Risk Assessment & Method Statements (RAMS), Environmental Impact Tracking, Production Auditing

CERTIFICATIONS

Member of the Royal Institution of Chartered Surveyors (MRICS) | RICS (Nov 2015)
CAA GVC Drone Pilot Certification | Civil Aviation Authority (Mar 2019)

LANGUAGES

English (Native)
French (B2 - Professional Working Proficiency)

ACTIVITIES

The Institute of Materials, Minerals and Mining (IOM3)
Active member contributing to the Mining Technology Group and participating in regional technical lectures.

Caving and Potholing Society
Applying spatial navigation and photography skills to explore and document natural cave systems.