

# Curriculum Vitae

## Sean Buxton

### Contact Me

Address: 61 Tamworth St  
Dubbo  
NSW 2830  
AUSTRALIA

Email: [bux@innicon.com](mailto:bux@innicon.com)

Mobile: +61 (0) 438 103 493  
Office: +61 (0) 2 6813 0736

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### Qualifications

- Basic First Aid (current 2017)
- NSW Mine Engineering and Quarry Manager's Certificate - Mutual Recognition (2013)
- SA Underground Mine and Quarry Manager's Manager's Certificate - Mutual Recognition (2009)
- Republic of Ireland Deputy (Shiftboss) Certificate (2001)
- Level 3 Mine Rescue, Institute Emergency Response, WA (2000)
- WA First Class Mine Manager's Certificate - Mutual Recognition (1999)
- Member of The Australian Institute of Mining and Metallurgy (1996)
- NT Unrestricted Mine Manager's Certificate (1995)
- QLD First Class Mine Manager's Certificate of Competency (1993)
- Bachelor of Engineering in Mining Engineering, SAIT (1989)
- Matriculation, Sacred Heart College, Adelaide (1984)
- Winner of the Zinc Corporation Limited Scholarship (1984)

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### Professional Membership

Member of AusIMM (Aust. Institute of Mining and Metallurgy) +20 years

## Skills

- Introduction to “Psychology of Risk” approach to Safety (2016-17)
- DiSC Management Tools (2015-17)
- Mine Design Software – previous user and now understand principles of VULCAN, DATAMINE, MINE2-4D, MINEMAP, SURPAC
- Accounting Management System – JDE, PRONTO (basic user)
- Safety Management Systems – C-Safe, P2B, MYOSH (proficient user)
- Participated and facilitated both TAPROOT and ICAM investigations
- Scheduling Software – Understand principles of MINEWORKS PLANNER and EPS, MineSched
- Microsoft Office Software Suite – proficient user
- Financial Management Unit - Postgrad. Dip. in Management (APESA)
- Management Skills for Technical Personnel (MTE)
- Planning and Feasibility Studies (MTE)
- Advanced Ventilation Course (M. Howes)
- Ground Control in Underground Mining (WASM)
- Mine Rescue (IERS Level 3 – WA; NSCA - NT)

## Strengths

- Forward, insightful and thorough planning
- Adaptability to difficult situations
- Safety Awareness and Ethic
- People Management and Communication
- Project Optimization and Efficiency
- Quality Control
- Innovation, Ideas and Concepts

## Responsibilities

### Leadership Roles

- Operations Manager - Tomingley Gold Mine (4 yrs 9 mths)
- General Manager - White Dam Gold Mine (3 yrs 2 mths)
- Technical Services Manager – Contract (10 Months, Ernest Henry Mine)
- Technical Services / UG Manager – Contract (10 Months, Granny Smith)
- Feasibility manager – Contract (5 Months, Osborne Mines)
- Project Manager - Contract (+18 Months, Osborne Mines)
- Contracts Manager - Contract (6 Months, Osborne Mines)
- Pre-feasibility Manager - Contract (4 Months, Osborne Mines)
- Underground Manager - Alternate (17 Months, Darlot Gold Mine)

### Other Roles

- Senior Mining Engineer (2.5 years, TMJV)
- Registered Mine Manager - Relief (1 Year, MRM and TMJV)
- Mine Foreman and Shift Boss (12 Months, MIM and MRM)
- Section Mine Surveyor (9 months, MIM)

### **Construction Projects**

- Advisor for operations during site construction for both White Dam Gold Mine (2009) and Tomingley Gold Mine (2013)
- Managed shallow dip boxhole drilling and hand held rise mining projects
- Managed Surface and Underground Raisebore projects
- Project coordinator ventilation change (Plutonic Mine)
- Coordinated design, procurement and construction of Underground MONO Pump Station (+\$500k)
- Assistant Coordinator 2 x 150m Ventilation Shafts using HORIDIAM Methods (+\$2M)
- Supervising Crusher Chamber excavation (+\$2M)
- Part of mine startup team, Macarthur River Mine (1994-96)
- Supervising Suspended Conveyor construction (+\$2M)
- Supervising Portal construction using ARMCO Tunnelling system (+\$50k)
- Tails' dam contract manager (+\$1M)
- Coordinated waste dump rehabilitation (+\$100k)

### **Mine Planning**

- Setup and manage 12 Weekly and LOM forecasting and budget planning processes at various mines
- Reviewed LOM Schedule Wallaby UG, Granny Smith Mine, 2007
- Prepared Strategic Business Plan (Mining) for Osborne Mines, 2003
- Setup Pre-feasibility and Life of Mine Plans (2 – 5 Year) for Osborne Mines
- Designed 600 and 1000 orebody development and stoping plan and sequencing strategy
- Prepared Operating and Capital Budget Forecasts Darlot Gold Mine, 1999/2000
- Designed the Macarthur River Mine room and pillar mining plan for both shallow and steep dip mining methods

## Employment Chronology

### **The Experience**

Underground (15 yrs)

Open Pit (11.5 yrs)

### **Tomingley Gold Mine – Alkane Resources Ltd**

4 Years 10 Months (Sep 2012 – Present)

*Operations Manager*

Responsibilities included:

- Review Pre-project feasibility
- Develop mine pre-operational readiness plan
- Liaise and engage with project and community stakeholders
- Advise on operational issues during plant, leach pad and pit infrastructure construction and plant commissioning
- Setup site management, teams and rostering
- Setup and manage site security system and procedures
- Assist in Mining Contractor Tender process
- Setup site safety management system including Principal Hazard Management Plans and Principal Control Plans
- All safety, production and cost performance for open pit + dump leach + carbon adsorption plant
- NSW Quarry Manager Certificate holder
- Compliance to NSW relevant regulations including EPA, DRE, POEO and WHS Acts

### **White Dam Gold Mine – Polymetals**

3 Years 2 Months (Apr 2009 – May 2012)

*General Manager*

Responsibilities included:

- All safety, environmental, production and cost performance for open pit + dump leach + carbon adsorption plant
- SA First Class Mine Manager Certificate holder
- Setup site safety management system
- Setup site management, teams and rostering
- Setup and manage Mining Contractor Tender process
- Assist Site Construction Manager during plant, leach pad and pit construction
- Assist process Superintendent during plant commissioning
- Community liaison
- WDJV Site Exploration Team overseer

## Employment Chronology...

### **Ernest Henry Mine – Xstrata NQ Copper**

11 Months (Jan 2008 – Dec 2008)

*Technical Services Manager – (Contract)*

Responsibilities included:

- Manage daily running of Technical Services Team of 42 including Survey, Geology, Environmental, Mine Planning and Design, Geotechnical
- Reduce staff turnover from 40% down to a stable level
- Establish new Technical Services team through recruitment of skilled personnel
- Acting Senior Geotechnical Engineer (until replacement found)
- Maintain high standards of safe working for both Technical Services and Mine Operations teams
- Provide mentoring and direction for young Technical Services Team
- Project Manager of Pit Dewatering, Depressurisation, Pit Slip remediation plan, Tails Dam lift
- Setup scope of work for Fibrecrete contract

### **Gosowong (Kencana UG) Mine – Newcrest**

1 Month (Nov 2007)

*Project Mining Engineer – (Contract)*

Responsibilities included:

- Draft and present a mine Production Plan for Kencana UG using Underhand Cut and Fill

### **Granny Smith (Wallaby UG) Mine – BARRICK**

10 Months (Jan 2007 – Oct 2007)

*Technical Services Coordinator / UG Manager – (Contract)*

Responsibilities included:

- Manage daily running of Technical Services Team
- Manage coordination of daily running of Mine Operations Team
- Deputy underground manager (Statutory, WA)
- Acting Mine Manager (1 month)
- Manage all Wallaby underground major Projects
- Maintain high standards of safe working for both Technical Services and Mine Operations teams
- Provide mentoring and direction for young Technical Services Team
- Project Manager of Raisebore Project – Tender through to completion
- Project Manager Ventilation Fan purchase Project – Tender only

## Employment Chronology...

### **Osborne Mines – BARRICK**

6 Months (Aug 2006 – Jan 2007)

*Feasibility Study Manager – (Contract)*

Responsibilities included:

- Undertake and complete Feasibility Study for KULTHOR deposit
- Coordinate feasibility team – both BARRICK and Innicon Team members
- Review medium term stoping sequence 1000 Block
- Carry out review of viability paste fill for the 1000 Block
- Carry out economic evaluation of 1100 1M stoping blocks and redesign as required

### **Cadia East Mine – NEWCREST**

1.5 Months (May 2006 – Jun 2006)

*Senior Project Engineer – (Contract)*

Responsibilities included:

- Assist coordinate commissioning of new ATLAS 6.0m long-round Jumbo
- Collate and process performance data
- Design development face patterns for new ATLAS software

### **Plutonic Gold Mine – BARRICK**

4 Months (Nov 2005 – end of Mar 2006)

*Senior Project Engineer – (Contract)*

Responsibilities included:

- Prepare Capital AFE's for 2005 / 06 including scopes and cost estimates
- Prepare Baltic / Central Major Vent Upgrade Schedule of works
- Project Manager for new underground cribroom and 134 Pump Station
- Prepare overview, scope of work and AFE for Plutonic Gold Mine Optimisation Study
- Prepare AFE and start underground CO Monitor / CITECT project

## Employment Chronology...

### **Osborne Mines – PLACER DOME ASIA PACIFIC**

33 Months (Feb 2003 – Oct 2005)

*Senior Mining Engineer and Project Manager (Contract)*

Responsibilities included:

- Review mine reserves 2003
- Prepare Life of Mine Schedule
- Prepare Strategic Business Plan for Mining Department
- Prepare Long Term / Life of Mine Designs
- Undertake Backfill and Pillar Recovery Analysis
- Pre-feasibility Study on Underground KULTHOR resource
- Prepare Tender Document for 1000 Block Underground Development, Raisebore and Boxhole Programmes and Production Drilling Programmes
- Project Manager Underground, Production Drilling and Raisebore Contractors

### **Darlot Gold Mine – BARRICK**

4 Months (Sep 2002 – Dec 2002)

*Mining Engineer – Production (Contract)*

Responsibilities included:

- Ring and Blast Design LHOS, SLOS and narrow vein
- All daily Production Engineering tasks
- Pre-feasibility study open pit
- Mine Reserve reconciliation
- Primary and Secondary vent surveys

### **McArthur River Mine – MIM**

6 Months (Feb 2002 – July 2002)

*Mining Engineer – Planning (Contract)*

Responsibilities included:

- Short term Planning and Design of Room and Pillar development and Production areas
- LHOS and Bench Stope Design and Drill and Blast Design

## Employment Chronology...

### **TARA Mines, Navan, Rep. Of Ireland - Outokumpu**

12 Months (December 2000 - November 2001)

*Project Mining Engineer for Thyssen Mining International*

Production Responsibilities:

- Daily, Weekly and Monthly Mine scheduling
- Daily, Weekly and Monthly Mine Production KPIs and database management
- Cablebolt drilling design
- Input into all design and production aspects of the mine
- Daily and EOM reporting process
- Prepare Contractor Claim (+800k EURO / mth)
- Relief OH&S Manager for contractor

### **Darlot Gold Mine – Homestake Gold Australia**

23 Months (Jan 1999 – Nov 2000)

*Alternate Underground Manager / Senior Mining Engineer*

Production Responsibilities

- Daily, Weekly and Monthly Mine scheduling
- Drill and blast design
- Monitor all physicals and mine database
- Input into all design aspects of the mine
- Stope design critique including SLOS, LHOS, Uphole Retreat
- EOM reporting process

Leadership Roles

- Underground Manager – Alternate
- Management of underground contractor
- Underground Foreman – Alternate
- Relief Mine Rescue Coordinator

Financial

- Preparation of Contractor Claim Approvals (> \$2M per month)
- Assist with Annual Budget Forecast – Capital and Operating
- Preparation of Monthly Mining Accrual

Other

- Design and coordinate construction of underground pump station
- Set up training program and implement VULCAN mine software
- Responsible for production targets of 680,000 t/yr @ 5.3 g/t

## Employment Chronology...

### **Tanami Mine Joint Venture – OTTER GOLD**

31 Months (June 1996 – December 1998)

*Alternate Mine Superintendent / Senior Mining Engineer*

Scheduling responsibilities included:

- Life of Mine Budget Schedule
- Daily, Weekly and Monthly Mine Planning and Scheduling

Planning and design “Multiple Open Pit” Mining:

- Open pit optimisation, design and cessation
- Implemented planning procedures and standards
- Implemented geotechnical standard operating procedures
- Geotechnical monitoring of pit wall slopes
- Design of Mine Site Garbage Waste Disposal Area

Drill and Blast

- Implemented Standard Operating Procedures
- Optimise Blast Design

Leadership Roles

- Acting Mine Superintendent
- Deputy to Registered Mine Manager
- Emergency Response Group Coordinator

Financial

- Preparation of Contractor Claim Approvals
- Assist with Annual Budget Forecast - Capital and Operating
- Preparation of Monthly Mining Accrual
- R & D Proposal Submissions to Australian Taxation Office

## Employment Chronology...

### **McArthur River Mine – MIM / Marubeni / Mitsui / Mitsubishi JV**

26 Months (Apr. 1994 - May. 1996)

*Production / Project Mining Engineer/Mine Startup Team*

Scheduling responsibilities included:

- 18 Month rolling Forecast and Budget Production Schedule
- Development of weekly target schedule
- Capital Forecast Schedule
- Stockpile growth forecast

Projects included:

- Assist JV Senior Mining Engineer in Vent Shaft sink project
- Research into new methods of taking survey line and grade using lasers

Planning and design Room and Pillar Mining

- Long and short term mine conceptual to final design
- Implemented planning procedures and standards
- Training others on ENVISAGE / VULCAN
- Design options for underground truck-loading bays
- Mine ventilation conceptual flow diagrams
- Prepared "Ground support standards" document
- Prepared "Services installation standards" document
- Redesigned and installed dewatering, pumping and drainage

Drill and Blast

- Electrical Firing System, Procedures and Commissioning
- LHW Design
- Face Blasting Pattern Standards for Development Drives

Leadership Roles

- Deputy to Mine Manager (fortnightly basis)
- Acting Underground Mine Foreman

Financial

- Processing of contractor period claims
- Calculate unit costs and show capital cash flow status/forecast
- Budget Appropriation Requests / Capital Work Orders

Procurement, supply and equipment selection included:

- All drilling, ground support and ventilation consumables
- Provide technical support for the selection of underground LHDs, trucks, service platforms, charging vehicles and integrated tool carriers

## Employment Chronology...

### **Mount Isa Lead Mine - MIM**

17 months (Nov. 1992 - Mar. 1994)

*Planning Mining Engineer*

Mount Isa Lead Mine Development Engineer Sub-level Benching:

- 12 Month Development Budget
- Weekly, monthly, and yearly forecast and budget schedules
- Setting up and monitoring of key performance indicators
- Research and implementation of both short and long term development strategies
- Orebody markups and face pictures
- Setting up of monitoring and testing programme for "Lead in Blood Levels" of all mining personnel
- Rationalisation of Lead Mine drainage system
- Ground support standards for development mining

Research and implementation of new aggregate filling system for benches

Technical support for Planning and Production sections

Setting up of self-managed development mining teams

### **Mount Isa Hilton Mine - MIM**

Ten months (1992)

*Underground Shift Boss*

Underground shift coordinator in haulage, development and production.

Responsible for co-ordination of development mining, ground support, services and production in Racecourse Benches, Lead Mine

Coaching and training teams and individual team members in:

- safety
- production targets
- technical areas
- team concepts

## Employment Chronology...

### **Mount Isa Lead Mine - MIM**

Ten months (1991)

*Underground Surveyor*

- Responsible for line and grade control of development headings
- Ring markups for stope and bench production drilling rigs
- Calculation of pay measurements
- Input and processing of peg station information
- Input of survey pickups using Microstation

### **Mount Isa Hilton and Lead Mines - MIM**

Six months (1991-93)

*Mine Projects Engineer*

- Evaluating performance of TAMROCK DATA SOLO
- Procurement, tendering and capital work orders
- Drilling consumables testing and monitoring
- Comparison testing and recommendations on
  - - hollow groutable bolts
  - - Split-Set and Cotter Pin friction rockbolts
  - - continuous grouting pumps
- Research and recommendations on face charging techniques and efficiency
- Research and recommendations on eyebolt design standards
- Acting supervisor of wetfill plant
- Setting up of short and long term plant maintenance programme

### **Mount Isa and Hilton Mines - MIM**

Two months (1990)

*Ventilation Engineer*

- Monitoring and research of underground pyrite explosions
- Evaluating fan performance
- Providing technical support for planning teams
- Daily monitoring of underground ventilation conditions
- Planning and installation of ventilation controls

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## Employment Chronology...

### **Mount Isa Lead and Hilton Mines - MIM**

Nine months (1990)

*Graduate Training Underground*

- Underground award experience in the following:
  - mining school
  - ring firing benches and stopes
  - secondary blasting
  - hand-held and mechanised cut and fill mining
  - production ring drilling
  - core drilling and grouting
  - shafts, crushers and haulage

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## The Good Word...

Please contact me if you require a referee

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