

Brett Dunstone

Principal Mining Engineer

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Brett is a mining engineer with over 20 years' experience. His core expertise is in strategic or long term mine planning for both underground and open-pit mines.

Brett is passionate about the application of new technologies in the mining industry, particularly technologies such as battery-electric & hydrogen-fueled vehicles that will play a pivotal role in decarbonising the industry.

Brett is experienced in a wide variety of commodities, however, his strength is in metalliferous mines, particularly copper and gold.

Brett has experience working on projects in all Australian states, as well as internationally in such countries as China, Saudi Arabia, Indonesia, and New Caledonia.

Core Skills Capability:

- Mine design & planning
- Cost modeling
- Reserve estimation
- Technical reviews
- Training & Mentoring
- Feasibility Studies
- Audit & Due Diligence
- Cost-benefit analysis of new technologies

Brett is also an AusIMM Chartered Professional.

Commodity Experience:

Brett has experience working in Base Metals (Copper, Lead, Zinc), Precious Metals (Gold, Silver), Iron Ore, Coal, and other commodities such as Nickel, Bauxite, Tin & Uranium.

Software Experience:

Experienced with a wide range of mine planning software, including Datamine Studio 3, CAE 5DP Planner, Surpac, MineSched, Vulcan, Whittle & Deswik.

EXPERIENCE

Inspirit Consulting

October 2016 to Present

Director / Principal Mining Engineer

Providing mine engineering services to the mining industry, with a core focus on long-term & strategic mine planning.

We provide a wide variety of services, including but not limited to:

- Pit optimisation
- Mine design, scheduling & cost modeling (open pit & underground)
- Reserves
- Technical reviews
- Training & Mentoring
- Feasibility Studies
- Audit & Due Diligence
- Cost-benefit analysis of new technologies

Connect Consulting Australia

May 2016 to June 2021

Principal Mining Engineer

Brett was an associate with this multi-disciplined engineering, design, and professional service provider.

Brett has mainly worked on the ongoing provision of long-term mine planning services for the Olympic Dam Operation.

GHD

January 2012 to May 2016

Senior Mining Engineer

Brett predominantly worked on metalliferous mine planning projects for this large multi-disciplinary consultancy, for both underground and open-pit mines.

Key projects included:

- **Olympic Dam Operation, Cu/Au/Ag/U3O8, BHP Billiton, SA, Australia.**
 - Provided extensive long term mine planning and design services.
- **Mount Morgan, Tailings Reclamation, QLD, Australia.**
 - Life of Mine planning for reclamation of tailings dam
- **Challenger Gold Mine, Kingsgate Consolidated, SA, Australia.**
 - Life of Mine Plan for this underground gold mine.
 - Pit optimisation and pit design work were also undertaken for two near-surface deposits.
- **Cairn Hill Mine, Magnetite Iron Ore, IMX Resources, SA, Australia.**
 - Mine planning support services for this open-cut iron ore mine.
- **Snaefell and Tomahawk deposits, Magnetite Iron Ore, IMX Resources, SA, Australia.**
 - High-level pit optimisations were undertaken.
- **Rogetta North Magnetite Project, Forward Mining, TAS, Australia**
 - Pit optimisation and pit design work

AMC Consultants

August 2010 to December 2011

Senior Mining Engineer

Brett worked on both open pit and underground mine planning projects during his time with this mining consultant.

Key projects included:

- **Olympic Dam Operation, Cu/Au/Ag/U3O8, BHP Billiton, SA, Australia.**
 - Provided extensive long-term mine planning and design services.
- **Kanmantoo Mine, Cu/Au, Hillgrove Resources, SA, Australia.**
 - Conducted pit optimisations and pit designs based on both MIK and OK block models, for the start-up of this open-cut mine.
- **Cairn Hill Mine, Magnetite Iron Ore, IMX Resources, SA, Australia.**
 - Mine planning support services for this open-cut iron ore mine.

Mining One

September 2009 to August 2010

Mining Engineer

Brett worked on both open pit and underground mine planning projects during his time with this mining consultantKey projects included:

- **Cowal Gold Mine, Barrick, NSW, Australia.**
 - An evaluation of the feasibility of expanding this open-cut gold mine into new pit areas.
- **Renison Bell Tin mine, Metals X, TAS, Australia.**
 - Relief mine planning services at this underground tin mine.
- **Beaconsfield Gold Mine, TAS, Australia.**
 - Life of Mine plan for this small underground gold mine.

GHD

August 2008 to May 2009

Mining Engineer

Brett worked on a variety of projects for this large multi-disciplinary consultancy.

Key projects included:

- **Maaden Bauxite project, Saudi Arabia.**
 - Mine planning for a Definitive Feasibility Study comprising Life of Mine planning and Mine Infrastructure.
- **Ouaco & Poya Nickel Mines, SMSP, New Caledonia.**
 - Life of Mine planning for these Nickel laterite projects.
- **Quarry Design & Investigations, QLD, Australia.**

John T Boyd Company

August 2006 to August 2008

Mining Engineer

Brett worked on a variety of projects for this mining consultant, predominantly for coal projects in Australia and overseas.

Key projects included:

- **Ensham Coal Mine, Ensham Resources, QLD, Australia.**
 - Several studies were undertaken for this open-cut coal mine, including a Dragline Pullback study, Life of Mine dump study & Truck/Shovel Feasibility Study.
- **Manpun Pandan Coal project, Indonesia.**
 - Conducted mine design for this open-cut coal project, followed by Reserve estimation, Life of Mine scheduling and a Dump Study.
- **Technical Review of Chinese Coal Mines, China.**
 - Two technical reviews of Chinese coal mines.

- **Due Diligence, QLD/NSW, Australia.**
 - Confirmatory due diligence on four coal assets of an Australian mining company.
- **Tom's Gully Gold Mine, NT, Australia.**
 - Life of Mine scheduling was undertaken for this small underground gold mine.

Coffey Mining

August 2005 to August 2006

Mining Engineer

Brett predominantly worked on underground mine planning projects during his time with this mining consultant.

Key projects included:

- **Endeavor Mine, Pb/Zn/Ag, CBH Resources, NSW, Australia.**
 - Relief Mine Planning Services at this underground mine.
- **Anduramba Molybdenum prospect, D'Aguilar Gold, QLD, Australia.**
 - Pit optimisation and desktop study for this proposed open-cut molybdenum mine.
- **500 Orebody, Cu, Xstrata, Mt Isa, QLD, Australia.**
 - Scoping study into accessing a new mining area within an existing underground copper mine.
- **North Mine, Pb/Zn/Ag, Perilya, NSW, Australia.**
 - Scoping study for this underground mine, on re-accessing abandoned and flooded workings.
- **Mount Gordon Copper Mine, Birla, QLD, Australia.**
 - Scoping study for this underground mine on the implementation of sublevel caving.

BHP Billiton (Cannington Mine)

November 2004 to August 2005

Mine Planning Engineer

Aditya Birla Group (Mount Gordon Mine)

March 2004 to October 2004

Mine Planning Engineer

EDUCATION

Charles Sturt University

2004 to 2010

Master of Business

University of South Australia

1993 to 1996

Bachelor of Engineering (Mining) with Honours

CERTIFICATIONS

Chartered Professional (CP)

December 2012

Australasian Institute of Mining and Metallurgy (AusIMM)

Registered Professional Engineer of Queensland (RPEQ)

January 2013

Board of Professional Engineers of Queensland

Natural Resources for Sustainable Development

April 2020

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eCARS1x: Electric Cars: Introduction

June 2021

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