**Krzysztof (KRIS) BieGAJ**

Mining Operations Management

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| Photo of Krzysztof (Kris) Biegaj    +61 409 883 020    ausvacmining@iinet.net.au    Krzysztof (Kris) Biegaj www.LinkedIn.com    Perth, Western Australia  (Australian Citizenship, 1988)  **Education & Qualifications**  Bachelor of Engineering (Mining) Hons  Wroclaw Technical University, Poland  First Class Mine Manager’s Certificate of Competency  (WA Metalliferous)  First Class Mine Manager’s Certificate of Competency  (WA Coal)  Member - Australian Institute of Mining & Metallurgy (AusIMM)  **Language SKILLS**  Fluent in English, Polish, Russian  (Spoken and written)  **Professional Skills**  Underground Mine Operations  Surface Mine Operations  Old Mine Tailings Retreatment  Safety Culture Home included  Mine Safety Systems  Reduction of Environmental Pollution  Mine Floor Material Recovery  Cost Management  Mine Safety Legislation  Innovations  Mines Rescue  Performance Management  Schedule Delivery  Change Management  Continuous Improvement  Contract & Owner-Operator Settings  Infrastructure Projects  Seismic Mine Environments  Narrow Vein Mining  Reduction of ore dilution  Foreign & Developing Jurisdictions  Unskilled Workforce Management  Severe Climate Operations  Technology & Equipment Development  Unionized Operations  Large Workforce Management  Operations Re-starting  **Personal SKILLS**  Strong Work Ethic  Leadership by Example  Listening to All  Team Builder  Motivator  Mentoring  Collaborative Style  Energetic Style  Problem Solver  Goal Oriented  Stakeholder Engagement  Committed  **References**  Available on Request  **TESTIMONIALS** |  | Personal Statement I am a Senior Manager, Business & Operations Consultant and Business Owner in the mine operations field with significant experience in underground and open pit settings, both in Australia and overseas.  My career history features a diverse range of roles which given me a broad foundation and an ability to assimilate and adapt to business circumstances and needs. I am a proven team-builder, motivator and mentor, and typically develop strong personal relationships with colleagues to foster a productive work environment and progress initiatives.  For much of my underground mining career, I have had a keen interest in optimization of operations which has led me to initiate many special projects, changes to operational strategies and also the establishment of an entrepreneurial business venture.  Whilst working as Registered Mine Manager on highly seismically active UG nickel mine in Western Australia I had three (3) fatalities, including two (2) caused by rock-burst (1997) – one (1) day after Princess Diana was killed in Paris. Since than I have had not allowed / had fatalities on mines I have worked on in various parts of the world, Australia included.  With workforce and upper management permission in 2006 Plus *(whilst working as Mine Manager for Goldfields in Kambalda, WA),* introduced Safety at Home as fundamental part of monitoring and approach to Safety on Mine-Sites – **Refer to my recent in-person presentation at the AusIMM Minesafe International Conference in Perth on 4–5 05 2022.** Professional Experience Specialist Mining Contractor (Business Owner)2020 - present  Ausvac Mining Pty Ltd | Perth, Western Australia  Business development for specialist mine contracting business  Marketing and business management of venture  Consultation with government on best practice mining initiatives  Mine Manager / Project Manager 2016 - 2020  Ramelius Resources Ltd. | Mt Magnet Mine, Western Australia  Underground mine management of the company’s largest producing mine  Design and construction oversight of surface infrastructure to support a new underground mine development  Business Improvement Consultant / Mining Consultant2012 - 2017  McMahon Mining Contractors | Various Sites in Australia, Mongolia & Philippines  TransSiberian Gold plc | Various Sites in Russia  Underground/open pit mine operational and design review of problematic sites  Operational debottlenecking  Business objective alignment and development of key performance indicators  Director of Operations2013  Mongolian Resource Corp | Sujigtei Gold Project, Mongolia  Re-establish mine and processing operations for recapitalized business  Government liaison  Develop operational strategy and planning for corporate interface  Executive Manager – Mining / Manager Mine Projects2009 - 2012  AngloGold Ashanti | Obuasi Gold Mine, Ghana  Underground mine management of a large, world-class, but challenging gold mine  Upgrade surface and underground mine infrastructure  Establish performance monitoring systems  Re-configure sub-optimal mine designs  Design and implement changes to workforce shifts and rosters  Strategic planning for long term  Implement cultural change  Contract Mine Manager / Mining Consultant2005 - 2009  Various engagements in Western Australia, Russia & Ghana  AngloGold Ashanti: Obuasi Gold Mine, Ghana – business improvement consulting  Aginskoye Gold Mine Design, Russia – underground narrow-vein mine consulting  Portman Iron Ore: Mt Jackson, Western Australia – multiple open pit mine management  Harmony Gold: Hill 50 Mine, Western Australia – seismic underground mine management  Gold Fields: St Ives Gold – underground mine management  Operations Consultant2004 - 2005  Celtic Resources Holdings Plc | Suzdal Gold Project, Kazakhstan  Design, permitting and construction of new underground mine in extreme climate  Operational management of multiple surface mining operations  Upgrade of surface infrastructure  Operational debottlenecking  Specialist Mining Contractor (Business Owner)2003 - 2004  Ausvac Mining Pty Ltd | Kalgoorlie, Western Australia  Established specialist mine contracting business with focus on recovery of high-grade ore  Designed and constructed unique mining equipment  Marketing and business management of venture  Site Director2002 - 2003  Celtic Resources Holdings Plc | Nezhdaninskoye Gold Project, Far-East Siberia, Russia  Operations management of world class underground gold mine in extreme climate  Interface between site and corporate function  Manager Mining / Technical Services Manager1997 - 2002  WMC Resources Ltd | Central Norseman Gold Operations, Western Australia  Operations management of high-grade, narrow vein underground and surface mines  Workforce restructuring and establishment of mining contracts  Implement changes to mine design, sequencing and reduction of pollution to environment  Mine Manager1992 - 1997  WMC Resources Ltd | Kambalda Nickel Operations, Western Australia  Underground mine management of largest nickel mining complex at operation  Workforce restructuring in heavily unionized environment  Design and implementation of mining contracts and management systems  Optimisation of mining practices  Upgrade of underground and surface infrastructure including introduction of facilities for female Members of Mining Team Professional Experience, Cont. Senior Ventilation Officer / District Inspector of Mines / Deputy Regional Mining Engineer1987 - 1992  Department of Minerals and Energy | Karratha/Kalgoorlie, Western Australia  Mine Rescue Superintendent1981 - 1985  Walbrzych/Waldenburg Coal Mining Region | Walbrzych/Waldenburg Regional Mines Rescue Station, Poland – with 25,000 People UG in 500 years old coal mining region  Section Superintendent / Mine Foreman / Mining Engineer1977 - 1981  Walbrzych/Waldenburg Underground Colliery, Poland  **Student Practices when studying at Wroclaw Technical University 1972 - 1977**  KGHM – Biggest in the world Copper and Silver UG Mining Corporation, Poland  **PROFESSIONAL ACHIEVEMENTS**  Developed New Underground Mine // 2016 - 2019  Ramelius Resources Ltd | Mt Magnet, Western Australia  Secured governmental approval to commence new underground mine from historic open pit workings.  Oversaw design, contract award for rehabilitation of existing workings and installation of ground control support system including pit wall monitoring system  Implemented risk management measures for major hazards including flood protection and emergency egress.  Designed, procured and oversaw construction of surface mine infrastructure including buildings, waste water management systems and explosives storage.  Managed scope of work effectively to complete under budgeted cost and on schedule.  Safety & productivity improvements of mining methods.  Introduced Step-Change Safety & Profitability Initiatives // 2008 - 2017  McMahon Mining Contractors | Various Sites in Australia, Mongolia & Philippines  TransSiberian Gold plc, Aginskoye Gold Mine | in Russia, Kamchatka Peninsula  Improved mines rescue function  Introduced personnel carriers in underground mines  Optimised function of underground mine refuge chamber system  Designed and introduced novel resue mining method to increase grade and productivity  Implemented Sweeping Changes to Modernise Mine // 2008 - 2012  AngloGold Ashanti | Obuasi Gold Mine, Ghana  Revised organizational structure to improve accountability and supervision  Developed strong working relationships with supervision and mine workforce to align with operational objectives and drive change  Developed and implemented strategies to infuse workforce pride and ownership  Introduced alternative stoping method to lower development cost intensity  Implemented 12 hour shift continuous mining roster which resulted in significant improvements to productivity  Modernised surface and underground facilities to promote hygiene, safety and productivity   * + Upgrades to changeroom facilities, crib rooms,   + Introduced food deliveries underground   + Established centralized firing and voice communication systems   + Modified ventilation practices   Upgraded underground mobile fleet to improve productivity and safety  Introduced tele-remote mucking and rock breakers in open stopes to increase productivity and safety performance  Founding and Development of Novel Business Venture // 2003  Ausvac Mining Pty Ltd | Kalgoorlie, Western Australia **(www.ausvacmining.com.au)**  Conceptualised, built and commissioned an industrial mobile vacuum system to target the recovery of high-value broken ore in underground excavations that would otherwise be lost.  The system was revolutionary and equipment truly a ‘world’s first’ highly efficient innovation and supported the foundation of a specialist mine contracting business that completed eight (8) mine floor material recovery projects in Australia (2003 – 2011 respectively) including: Mt Pleasant (Placer Dome), Bendigo Gold Mine (Bendigo Mining NL), Otter-Juan (GMM), Cosmos Nickel (Jubilee Mines), Agnew (Gold Fields), Long-Victor Complex (Independence Group), Redross Mine (Mincor Resources) and Harlequin Mine (Central Norseman Gold).   * + **Hands-on vacuuming system development from 5 to 40 tones/shift capacity – by Kris Biegaj**   The development of the business was self-funded and was profitable for all parties in the niche applications it targeted.  Operational Profitability Improvement // 2001  WMC Resources Ltd | Central Norseman Gold Operations, Western Australia  Restructured mine operations and technical services functions to optimise mine output that led to the highest gold output from the operation’s continuous 60 years + history.  Instituted bottom-up cost management systems and awareness that drove increased accountability that ultimately led to the achievement of operating costs in the world 1st quartile despite challenging mining and mineral resource dynamics.  Implemented Technological Change // 1998-1999  WMC Resources Ltd | Central Norseman Gold Operations, Western Australia  Conceptualised and implemented of Australia’s fist one-pass separation blasting system to significantly increase ore grade delivery from development headings.  Sponsored and mentored a multi-disciplinary team of technical, operations and maintenance personnel to introduce a ‘mini-jumbo’-based development and stoping system that resulted in significant reduction in dilution, increase in productivity and a fundamental shift towards mechanized mining.  Responded to Increased Mine Seismicity // 1994 Plus  WMC Resources Ltd | Kambalda Nickel Operations, Western Australia  In the face of significant increases in mine seismicity which threatened employee safety and continuation of operations, instigated a comprehensive geotechnical review and drove fundamental changes to mine design, technical capability, ground support practices – **mechanized shot-fibrecretting included.** This was at a time when geotechnical input into mining was not commonplace nor considered necessary.  Significant Operational Productivity Improvement // 1994 Plus  WMC Resources Ltd | Kambalda Nickel Operations, Western Australia  Conceptualised and implemented organizational and workflow changes that led to a sustained **270% increase in mine productivity** with no associated changes to labour costs in a heavily unionized environment.  Ore Mining Optimisation // 1993-1994  WMC Resources Ltd | Kambalda Nickel Operations, Western Australia  Conceptualised and lead a multi-disciplinary team to develop a modified underground loading system to maximize recovery of broken ore in development and stopes.  Conceptualised and lead a multi-disciplinary team to develop a modified single-boom jumbo system for ore development and cut and fill stoping. The initiative resulted in increased effectiveness of ground support and a 40% reduction in ore dilution and pollution to environment - Australian first which was adopted into future equipment design by Atlas Copco.  Designed one of Australia 1st electric truck haulage mine (Otter-Juan Mine) with business trip to Sweden in 1993.  **Change of Western Australian Mines Legislation // 1989-1992**  Department of Minerals and Energy | Karratha/Kalgoorlie, Western Australia  Member of Western Australian Chamber of Mines Committee to introduce and successfully establish mines rescue system on metalliferous mines in WA – appointed by Mr. Jim Torlach WA State Mining Engineer.  Together with Dr Chris Swindells - Head of WA Department of Minerals and Energy Geological & Survey Division, introduced fundamental changes to WA Mine Legislation for open pit mining design and governmental approvals to ensure wall stability and flood protection. |  |  |