



## Martin Snyman

### Principal Risk Consultant

Martin is a Mechanical Engineer with over 27 years' experience in mining, power generation, infrastructure and asset insurance. He has fulfilled various roles such in plant engineering, maintenance engineering, systems engineering, insurance, project management and the specialist field of project risk management and project risk quantification. He started working for IMIU in 2021.

Martin started his career in Coal mining for Iscor Mining at Grootegeluk Mine as an engineer in the mining area and later transferred to the plant area for a senior engineering role. After obtaining an honours degree in maintenance engineering, he was appointed as a maintenance logistics engineer on a technology commercialisation project for continuous steel making. In this role he started to get his first risk-based engineering experience, inclusive of risk assessment and asset insurance. In the next few years Martin did asset risk assessments and underwriting for Alexander Forbes Risk Services and also worked in a small engineering consultancy providing maintenance and business process engineering services to industry.

In 2005 he accepted his first full-time role as a project risk manager for the Pebble Bed Nuclear Reactor project. In this role he was responsible for the assessment of schedule and CAPEX risks across the entire scope of the first commercial scale 4<sup>th</sup> generation modular reactor project in the world. Part of the role entailed applying Monte Carlo simulation techniques to quantify the various risks effect on the schedule's completion date and the final CAPEX; commonly referred to schedule and cost Quantitative Risk Assessments (QRA) in the projects industry. During this period his work was regularly peer reviewed by experts in project risk management for due diligence as well as by the International Atomic Energy Agency. He developed considerable project risk management and QRA capabilities in this period and was soon approached to join ESKOM's project management team to provide guidance to their project management team across the program of power station projects.

His next role in 2008 was back to coal mining at Exxaro as the project risk manager on the Grootegeluk Expansion Project, to double the capacity of what was already the world's largest coal beneficiation complex and to help establish project risk management at Exxaro. During this period, he was invited to present at project and construction management conferences and also chaired his first conference. One of his responsibilities was to place project insurance for the project on a Principle Controlled Basis. Martin led the development of a risk-based insurance risk analysis approach which reduced the premiums by more than 50% over a six month insurance placement period.

During 2011 he joined the well-respected international engineering company, Hatch, as their regional lead for risk management on all projects in Europe, Africa, the Middle East and Russia. Apart from managing all risk assessments in the sub-disciplines of engineering, fire and project risk he also personally numerous project risk assessments, QRA's and HAZOP's on projects. The projects assessed spanned all project phases from concept level to implementation in mining, petrochemical, rail, bulk water, smelting, steel milling, ports & marine, power generation and LNG industries. He also developed project risk management procedures and templates for a number of clients and conducted risk management due



diligence reviews for prospective investors during this period. In this period, he also attained an Engineering Masters in Technology Management, which was tailored towards risk management.

In 2017 he returned to Exxaro as a project risk specialist in a project governance and compliance group which set procedural requirements for the entire company and also did regular assurance and gate reviews of the project pipeline. Over the period that Martin was with this team, their combined effort improved the accuracy of annual CAPEX and Schedule forecasts to world class accuracy levels for mining projects. His role once again included project insurance assessments, project insurance placement, support to asset insurance surveys and assisting in integrating asset insurance aspects into the corporate fire engineering approach. During 2020 he successfully passed the AACEI's expertise level certification examination in Decision Analysis and Risk Management focused on projects and assets to become only the 39<sup>th</sup> person certified as a DRMP.

#### Qualifications:

- Bachelor of Engineering (Mechanical) - University of Pretoria
- Honours of Engineering (Maintenance Engineering) - University of Pretoria
- Master of Engineering (Technology Management)
- Memberships & Certification
- Member of the Association for the Advancement of Cost Engineering International (AACEI)
- AACEI Certified Decision and Risk Management Professional (DRMP)

Martin is married and a father to a daughter and son. He has numerous interests such as succulents, tree spotting, trying to do some woodwork, trying and failing to grow vegetables and listening to blues - the latter to the disgust of the family. He is a firm believer in Frank Zapa's quote: "So many books, so little time" and tries to read as much as possible or listen to history podcasts and audiobooks whilst doing chores around the house or travelling. He loves food and a good cappuccino. The family loves to plan and go on road trips for a vacation at some uncrowded place with a few eclectic stops along the route.