



HALLIWELL

PETER MASTALIR, MENG

PRINCIPAL MECHANICAL ENGINEER
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SPECIALTIES

- Marine
- Mining
- Manufacturing
- Iron and Steel
- Construction
- Automation
- Renewables
- Petrochemical

BIOGRAPHY

Peter is a highly accomplished Mechanical Engineer with over 46 years' experience in engineering and design. Collaborating with global corporations in underground mining, tunnelling, mining equipment, heavy industry, manufacturing and marine. Peter utilises failure analysis methodology to create equipment based on engineering first principles, all while adhering to and surpassing industry codes and standards for hazardous environments.

He has collaborated with international corporations for technical solutions supplying designed & manufactured bespoke products made in Australia & exported across the USA, China, Russia, Germany, Czech Republic, Poland, Liechtenstein, Japan, New Zealand, the UK, and Vietnam.

Peter possesses a wealth of research and development experience in collaborating with various international organisations, including the Japanese Coal Industry Research Organisation and the Australian Coal Association Research Programme. He has also contributed to numerous academic projects with Griffith University.

Peter applies his extensive experience, knowledge, skills, and expertise to perform comprehensive investigations into mechanical failures across diverse environments.

QUALIFICATIONS

- Mechanical Engineering Certificate (Level 6 Equivalent), Wollongong Technical College
- Craftsman Certificate of Proficiency in Fitting & Turning, Wollongong Technical College

PROFESSIONAL EXPERIENCE

- Halliwell Pty Limited – Principal Forensic Mechanical Engineer (2024 – Current)
- Advance Fluid Systems Pty Ltd - Managing Director/ Lead Engineer (1990 - Current)
- Bluescope – Mechanical & Piping Site Supervisor – (2023 – 2024)
- Seapower Marine Gold Coast – Director – (2018 – 2023)
- Dynamic Efficiency Pty Ltd - Managing Director/CEO – (2015 – 2024)

PETER MASTALIR, MENG PRINCIPAL MECHANICAL ENGINEER

- Rambor Pty Ltd - Managing Director - (2004 – 2015)
- Bluescope/BHP Steel/AIS - Mech Eng – (1979 – 1988)

ACHIEVEMENTS & NOTABLE ASSIGNMENTS

- **Design**

40 years of mechanical equipment design ranging from heavy industrial hydraulic & pneumatic automated systems for steel production to machine design for underground mining & tunnelling sectors with the ability to design equipment from engineering first principles, meeting/exceeding industry codes & standards for hazardous environments. This encompasses compliance for safe operation in explosive environments (ATEX & CE compliance). Also includes associated pipework for gases & liquids including high pressure applications.

- **Research & Development**

Completed several hundred successful R & D product development projects primarily for the mining sector which translated to products sold worldwide. Collaborated on Joint Ventures with international corporation (Hilti) with their products integration for market as well as industry bodies to develop hazard identification technology in underground mining & tunnelling, such as the Australian Coal Association Research Program Project C26068 ~ Use of Real Time Rib Drilling Data to Determine the Propensity for Coal Bursts During Roadway Development & Japanese Coal Industry Research Organisation (JCoal) ~ Strata data acquisition through the process of drilling the hole.

- **Manufacturing**

For 11 years, the Founder, Managing Director & Principal Engineer/Designer for Rambor a company that designs, manufactures & exports worldwide the world benchmark Strata Control Delivery Platform Equipment for Underground Mining & Tunnelling.

- **International Business**

Conducted International Business/Projects including large corporations globally.

- **Patents**

Several Provisional Patents for Mining Equipment, Marine Propulsion & Hydrogen Energy

- **Business Awards**

18 Regional & State awards for Innovation, Manufacturing, Export and Safety