

Shane Carmichael



MBA Finance | Engineer | Data Analyst

General Manager with strengths in leadership and team building. Over 16 years' experience in mechanical design, HVAC, PLC automation and all aspects of business management. Mechatronic engineering background, with an MBA majoring in Finance. Recent graduate of a UTS industry accredited Certificate in Data Science, which involved hands-on technical skills and exposure to current AI practices. Looking to pivot my career to data science, machine learning, automation, and AI. Key practical workplace skills and strengths I can bring to an organisation include analytical skills, business management, leadership, critical thinking, stakeholder management, problem-solving and consultation.

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🐙 <https://github.com/ShaneCarmichael>

Education

2010-2014
University of Technology Sydney
Masters in Business Administration

2000-2005
University of New South Wales
Bachelor of Mechatronic Engineering

Certifications

University of Technology Sydney & IOD 2021
Australia, Certificate in Data Science & AI

- Foundational Data Science
- Core Data Science and AI Skills
- Soft Skills as a Data Scientist
- Applying Data Science Industry

Technical Skills

- Automation/PLC
- Mechanical Design
- Python
- Pandas
- Tableau
- Excel
- SQL
- AWS Cloud

Interpersonal Skills

- Problem Solving
- Sales/Marketing
- Presentation
- Collaboration

Volunteer Organisations

NSW AIRAH Committee President
2012-2016

Interests

AI and machine learning, triathlon, cycling, kiteboarding, golf, basketball

Experience

The Institute of Data - Capstone Project 2021

- Machine learning for Project Cost Estimation and Reporting

Key Achievement: Developed machine learning models to predict the cost of bespoke HVAC equipment, improving overall gross margin by up to 35%.

Air Change Group – General Manager and Director 2015-2021

- Oversee operations across all four subsidiaries of the Air Change Group. Air Change is a manufacturer of specialized HVAC equipment.

Key Achievements: Increased annual revenue by 25% from 2015 - 2021

Helped develop the Climasync control system to automate the operation of complex HVAC equipment. Included remote monitoring, control and diagnosis.

Air Change Australia - NSW/ACT State Manager 2009-2014

- Led the NSW sales engineering and technical support team of Air Change Australia
- Promoted into manager role after 4 years as an engineer

Key Achievement: Awarded AIRAH future leader award in 2010