

# Harry Bird

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## Education

- **Master of Data Science**  
*University of New South Wales, 2025*
- **Bachelor of Engineering with Honours, Mechanical**  
*University of Canterbury, 2023*

## Experience

- **Digital Lead**  
*Rocersa, November 2023 - Present*
  - • Migrated the Access database to Postgres (Supabase) to enable cloud functionality
  - • Developed custom customer relationship manager to track orders and stock
  - • Developed dynamic web applications to provide live pricing
- **Building Services Intern**  
*Aurecon, November 2022 - February 2023*
  - • Developed understanding of Mechanical Building Services and collaborated with team members to develop energy-efficient solutions for buildings
  - • Conducted Thermal Modelling using software to determine building heating and cooling loads
  - • Gained valuable experience in a professional consulting environment

## Skills

- English (Native)
- Spanish (B2)
- Python
- SQL
- Machine Learning

## Projects

- **Central America Rail Network Feasibility Study**
  - In a group of two, comprehensively researched the challenges and opportunities in developing passenger and freight rail connections in Central America
  - Analysed financial and risk management data, and combined it with population demographics to create a comprehensive study.
- **UCHPV Human Powered Land Speed Record Attempt Team**
  - Leading the aerodynamics team within the record attempt team
  - Designing and optimizing a fairing to minimize drag coefficient
  - Conducting wind tunnel testing to validate simulation results
  - Constructing the fairing using composite manufacturing methods