

Reuben Ford

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Professional Summary

High-distinction Mechanical Engineering and Applied Physics student (graduating mid-2026) with experience designing and manufacturing biological safety cabinets, HEPA filtration systems, and custom sheet metal assemblies. Skilled in mechanical design with proven ability to manage full product lifecycle from concept to commissioning. Strong academic background with a strong interest in working on leading edge technologies

Education

Bachelor of Engineering (Honours) / Bachelor of Science

March 2021 – May 2026 (expected)

University of Technology Sydney

Mechanical Engineering & Applied Physics (Double Major)

- GPA: 6.8/7 GPA (High Distinction average)
- Capstone project (in progress): Design, build and test a hybrid rocket motor

Technical Skills

Mechanical Design & CAD:

- Autodesk Inventor (Advanced)
- SolidWorks (Intermediate)
- 2D drawings (Advanced)

Manufacturing & Fabrication

- Sheet metal fabrication: laser cutting, press brake bending, welding
- 3D printing and rapid prototyping
- Manufacturing process optimisation

Programming & Analysis

- Python (Intermediate) | MATLAB (Intermediate)
- Microsoft Excel automation with VBA and PowerQuery

Standards & Compliance

- AS/NZS safety standards, ISO quality management systems
- Product testing and commissioning procedures for critical applications

Work History

Mechanical Engineer

November 2023 – Current

AES Environmental

- Design complex assemblies for critical applications in healthcare, pharmaceutical and laboratories (custom biological safety cabinets, laminar flow booths, HEPA filtration products, fume cabinets, HEPA capture hoods).
- Full product lifecycle: design, manufacture, test and commission various air purification products to relevant AS & ISO standards (AS 1807, ISO 16890, AS 2252).
- Create detailed technical drawings and manufacturing specifications for complex assemblies and components.
- Design and implement manufacturing processes for efficient production of assembled (biological safety cabinets, fume cupboards etc.) and welded products (trolleys, stainless steel benches)
- Hands-on fabrication using laser cutter, press brake, and laser welding

Café Manager

March 2022 – November 2023

Dolly's Donuts

- Led and supervised team of 8+ employees, developing strong leadership and communication skills.
- Collaborate closely with business owner to implement operational improvements.
- Successfully managed inventory and employee rostering.
- Developed project management skills applicable to engineering environments.

Data Entry Clerk

March 2021 – March 2022

Dr Martin Grehan

- Maintained confidentiality and accuracy while handling sensitive patient data in regulated healthcare environment.
- Demonstrated strong attention to detail.
- Managed document control and administrative systems.

Referees

Available upon request.