

# Ben Boyer

[ben.boyer.career@gmail.com](mailto:ben.boyer.career@gmail.com)

| 0448 943 236

| Dudley, NSW, 2290

| [benboyer.au](http://benboyer.au)

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## Summary

Graduate Mechanical Engineer with renewable-energy experience. Proficient in CAD, prototyping, and design. Passionate about solving complex challenges with practical, impact-driven solutions.

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## Career history

### **CAD Designer** at Energy Renaissance (Part-time)

2023 – 2025

Developed advanced battery storage units from initial concept through to manufacturing, collaborating across multidisciplinary teams.

#### **Key responsibilities**

- Designed battery storage systems using advanced CAD tools.
- Conducted product testing and prototyping.
- Coordinated cross-functional collaboration in product development.

#### **Achievements**

- Successfully contributed to multiple projects transitioning from concept to manufacturing.
- Improved design efficiency through advanced CAD techniques.
- Increased production rates of various product lines using strategic design.

### **STEM Volunteer Teacher** at Redhead Public School

2022

Guided primary school students through hands-on STEM learning activities focused on aerodynamics and aircraft construction

#### **Key responsibilities**

- Facilitated workshops teaching basic engineering principles and aerodynamics.
- Supervised the building and testing of balsa wood aircraft.

#### **Achievements**

- Enhanced student engagement in STEM through practical, interactive projects.
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## Education

### **Bachelor of Mechanical Engineering** from University of Newcastle

2019 – 2025

### **Course highlights**

- ELEC1310 - Introduction to Electrical Engineering – 75% (Distinction)
  - ENGG1500 - Introduction to Professional Engineering – 84% (Distinction)
  - MECH1110 – Introduction to Mechanical Engineering – 95% (High Distinction)
  - MECH4580 – CAE & Manufacturing – 85% (High Distinction)
  - MECH4841A/B – Mechanical Engineering Project A/B – 82% (Distinction)
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### **Key skills**

#### **Hard skills**

- Computer-Aided Design (Fusion 360, Creo Parametric, Shapr3D, Onshape)
- Simulation & Analysis (ANSYS, Physical Testing)
- Manufacturing & Prototyping (3D Printing, Drafting, Sheet Metal)
- Renewable Energy Systems
- Technical Problem Solving

#### **Soft skills**

- Collaborative Project Management
  - Critical Thinking and Adaptability
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### **References**

Available upon request