

Ben Boyer

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Summary Driven Mechanical Engineering student with renewable-energy experience. Proficient in CAD, prototyping, and design. Passionate about solving complex challenges with practical, impact-driven solutions.

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.

Education **Bachelor of Mechanical Engineering** from University of Newcastle
2019 – Present

Course highlights

- ENGG1500 - Introduction to Professional Engineering – 84% (Distinction)
 - MECH1110 – Introduction to Mechanical Engineering – 95% (High Distinction)
 - MECH1750 – Engineering Materials 1 – 78% (Distinction)
 - ELEC1310 - Introduction to Electrical Engineering – 75% (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