

# AUSTIN CLEARY

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## Overview

I am a fourth-year Mechanical Engineering and Mathematics student at the University of Sydney, graduating in November 2026. As a proactive and team-oriented individual looking for opportunities to begin my professional career; gain industry experience, build professional connections and develop my skills.

## Education & Achievement

**University of Sydney** 2022 - Present  
Bachelor of Engineering Honours (Mechanical Engineering with Space) and Bachelor of Science (Mathematics)

- Attained a High Distinction with a Weighted Average Mark & Dalyell Scholar Recipient

**St Pius X College Chatswood** - ATAR 98.75 2016-2021

## Transferable Skills

**Communication** - Demonstrates excellent written and verbal communication skills through teamwork in the USYD Rocketry Team and professional interactions with clients and colleagues at Cromer Golf Club, Hireup, and Woolworths.

**Adaptability** - Thrives in fast-paced environments, effectively prioritising to meet demands deadlines.

**Problem solving** - Skilled in analysing and resolving complex problems, evident in the design and manufacture of rocket components.

**Teamwork and Leadership** - Actively contributes to group projects and takes on leadership roles. These skills are enhanced through mentoring new members in the USYD Rocketry Team and captaining Wakehurst Rugby Club.

## Technical Skills

**SolidWorks 3D CAD & FEA** - Proficient in SOLIDWORKS CAD and ANSYS Finite Element Analysis (FEA). Advanced through application in design of propulsion system for USYD Rocketry Team.

**Programming** - Python, MATLAB, Simulink and R developed and applied through University coursework and engineering projects for USYD Rocketry Team.

**Technical writing** - Produces clear technical reports and documentation and interpreting complex material.

**Data Analysis** - Skilled in signal processing, IPCT, filter design, uncertainty analysis, visualising using Python.

**Mathematical** - Proficiency in Calculus, Linear Algebra, Complex Analysis and Abstract Mathematics.

**Proficiency in Microsoft Tools** - Advanced proficiency in Microsoft Word, Excel, Outlook, and PowerPoint.

## Experience

**USYD Rocketry Team** 2024 - Present  
Structures Engineer

- Collaborated on the design and analysis of the rockets body frame under launch and testing loads
- Utilized Python and MATLAB to automate structural performance analysis and stress evaluation
- Designed and manufactured 3D-printed mounts for pneumatic air systems

**Cromer Golf Club** 2022 - Present  
Horticulture and Maintenance

- Performing regular maintenance to the golf course
- Assisting with major redesign and construction projects, enhancing the club's facilities

**Hireup** 2022 - Present  
Disability support worker

- Supporting children and adolescents in accessing the community and building independence

**Woolworths** 2019 - 2022  
Customer Service

- Delivered exceptional service to customers in a fast-paced retail environment

## Referees

**Leon Hennesy:** General Manager of Cromer Golf Club - 0422 699 717

**Neville Thomas:** Rugby Coach & Head of Change Risk Commonwealth Bank - 0411 288 181