Jerry (Yuanhao) Zhang

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Summary — Mechanical Engineering student at UNSW Sydney with a strong foundation in product design, computational modelling and prototyping. Experience with SolidWorks, Fusion 360, MATLAB etc. Passionate about mechanical systems, manufacturing and problem-solving. Actively seeking internships in mechanical engineering related fields.

Education

University of New South Wales, Sydney, Australia   Jan 2023 - Dec 2026
Bachelor of Engineering in Mechanical Engineering (Honors)   82.6 WAM
Georgia Institute of Technology, Atlanta, USA (Exchange program)   Jan 2025 - May 2025
Relevant Courses: Dynamics & Machine Design & Heat Transfer & IC Engines

Work Experience

Chemist Warehouse Pharamacy Assistant   Nov 2022 – Feb 2023
Chemist Warehouse Bondi Junction   Sydney, Australia
- Assisted licensed pharmacists in medication preparation. This included receiving prescriptions, verifying orders and inputting patient information.
- Maintained inventory and organised stock whilst providing frequent communication with customers and healthcare providers.

Projects

Oscillating Wave Column - DESN2000   Jan 2023 - Apr 2023
- Designed an oscillating wave column that is used to convert wave energy to electrical energy used to power a light bulb.
- Experience with circuit design, report writing, team work communication, and CAD design.
- Consistent technical interactions with team members from different engineering disciplines.

CNC Machining Project - MMAN1130   Oct 2024 - Dec 2024
- Designed two stainless steel pieces which acted as halves of an injection mould used to make plastic coins.
- Followed CAD instructions to achieve the required tolerances and fits between the two halves.
- Designed the required CAM pathways to ensure smooth surface finishes, edges and tolerances.

Power Meter - Personal   Oct 2024 – Dec 2024
- Designed an electrical power meter used to determine power output of a rider by using strain gauges and signal amplifiers.
- Researched and sourced required parts, soldered electrical components and assembled prototype.
- Worked and collaborated with peers from varying disciplines.

Volunteering

Bikeology Bike Mechanic - AHEGS Accreditation   Oct 2023 - Jan 2024
Arc - UNSW Student Life
- Routine maintenance and repairs on bicycles. Including shifter adjustments, tire replacements and bicycle safety checks.
- Communicated with other volunteers in a team setting.

Technical Skills

SolidWorks | Fusion 360 | MATLAB | Programming (C, Python, Arduino IDE) | 3D Printing | Laser Cutting | CNC | ANSYS

Languages

English (Fluent) | Mandarin (Fluent) | Japanese (JLPT N2)