

RICHARD CHAO-HSIEN CHAO

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Portfolio: <https://richard5zx.github.io/>

EDUCATION

Bachelor of Engineering Honors (Aerospace)

University of New South Wales, Australia

February 2018 – May 2023

Exchange Program / Study Abroad

Munich University of Applied Sciences, Germany

September 2019 – March 2021

International Baccalaureate (IB)

South Island School, Hong Kong

September 2011 – May 2017

PROJECTS

Personal website

- Currently working on a personal website created using HTML and CSS hosted on Github Pages

RELEVANT COURSES

Database Systems

UNSW

- As part of a university assignment, wrote SQL and python code in PostgreSQL to extract specific data from an existing database

Data Structures and Algorithms

UNSW

- Learned about different data structures including trees and graphs.
- Learnt about time and space complexity

Computer Systems Fundamentals

UNSW

- Learnt and translated a game (connect four) from C language using assembly language (MIPS).

INTERNSHIP

Joby Germany GmbH

June 2021 – October 2021

Position: Manufacturing Intern

Sauerlach, Germany

- Programming and milling objects using CAD and CNC (HyperMILL) machines.
- Managed tool data base of blades and designed objects in SolidWorks and SolidCAM
- Manipulation of SharePoint lists using Power Automate and Power Apps:
- Designed and created/programmed application using Power Automate and Power Apps:
 - App 1: Stores locations of fixtures on shelves with power app interface and recording them in several SharePoint lists.
 - App 2: Tracks quality of machines regularly and allows report of problems to be written with choice of different languages available and then recorded in SharePoint list.
- Translate using German and Chinese to communicate with the branch in China and thus discuss Programming problems

5AXperformance GmbH

January 2021 - April 2021

Position: Engineer Intern

Inning, Germany

- Created my own 3x3 Rubik's cube out of aluminum through CAD and CNC machines.
- Programming of Computer numerical control (CNC/HyperMILL) machines
- Management and execution of CNC programming to drill, thread, milling etc. to produce desired component.
- Proficient with HyperCAD to construct abstract objects (from engineering drawings)
- Strong understanding of finishing of different types of materials/products and its procedures
- Clear grasp of technical drawings from CAD (to manufacture within tolerances)
- Design and manufacture products then simulate and the geometry from created technical drawings.
- Support programming and manufacturing of aerospace development materials
- Strong understanding of Quality management processes in aerospace development

TECHNICAL SKILLS

- Engineering Skills: HyperMILL/HyperCAD (CNC), SolidWorks, SolidCAM, Word, PowerPoint, MATLAB, Excel, Power Apps, Power Automate
- Software Engineering Skills: Java, C, Python MIPS, C, SQL (PostgreSQL), Github
- Language: English, Chinese, German (telc Deutsch C1 Hochschule), Japanese (Intermediate)

LEADERSHIP ROLES

Warrane College (UNSW)

October 2022 – December 2023

Position: Tutor (Residential Fellow/Residential assistant)

Sydney, Australia

- Organize coffee club (floor gathering for small activities) four nights a week for a half-hour session.
- Help at stalls at the University of New South Wales open days to promote the college and at Warrane's Parent's days.
- Organize Orientation week (Fresher's week) for incoming residents.
- Received First Aid, Mental Health First Aid and Fire Safety Training in case of emergency in the college.
- Organize and set up formal dinners for weekly Warrane formal dinners and ensure attendance of floor members.
- Assist residents in academics and other aspects of their university life by holding fortnightly catch up with each member of the floor to ensure they are doing well.

- Support, promote and encourage participation at the events held by the Activities Committee of Warrane throughout the year.

UNSW Hockey Club

March 2018 – October 2018

Position: Coach

Sydney, Australia

- Design and implement training every week to suit demands of the team.
- Coached and lead junior team to final four in the junior league.
- Acting as an umpire, being attentive and having good familiarity with the rules.

VOLUNTEER/CHARITY**Little Sisters of the poor (nursery home)**

- Helped/volunteered at Mount St Joseph's Aged Care home, run by the Little Sisters of the poor with various tasks at a nursery home including gardening, cooking wash cars, socializing, and interacting with the residents there.

Work camp (Lismore)

- Volunteered to help people in Lismore who were affected by the historical flood for a week. Task included helping people with construction/rebuilding of two houses and a hotel that were submerged for many weeks.

EXTRACURRICULAR

- Hiking and Camping: Attained "The Hong Kong Award for Young people (Bronze)"
- Sports: Hockey (UNSW Hockey team), Tennis, Basketball

OTHER EMPLOYMENTS**Merivale (Sydney Cricket Ground/Sydney Football Stadium)**

May 2022 – Ongoing

Position: Event Staff (Barista, Bartending, Section Waiter)

Sydney, Australia

- Barista (Making espresso shots, frothing milk, cleaning machine)
- Bartending and making different drinks upon request.
- Greet customers and help them with their requests.
- Worked as runner and stocked fridges where needed

Warrane College

January 2022 – January 2023

Position: Receptionist

Sydney, Australia

- Demonstrated proficiencies in telephone, payment terminal and front-desk reception.
- Created professional, welcoming atmosphere for guests and residents.
- Supported guests/customers with their inquiries or problems.

Starbucks

November 2018 – January 2019

Position: Barista

Hong Kong

- Prepared and supplied food and beverage orders and prepared sales reports and payroll.
- Opened/closed store and maintained store cleanliness.
- Greeting customers, provided information for specials and promotions, and setup. Held coffee preparation demonstrations and assisted customers with selections of food and beverages.

Lotus Modern Thai (Bar/Restaurant)

November 2018 – January 2019

Position: Floor Staff

Hong Kong

- Prepared food and beverage orders and prepared sales reports and payroll.
 - Greet newly seated guests in a friendly and timely manner.
 - Held cocktail preparation demonstrations and assisted customers with selections of food and beverages
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