

RICHARD CHAO-HSIEN CHAO

Phone: +61 451073088

Address: 356 Anzac Parade Kensington 2033 Sydney

Email: richardchao2009@gmail.com

EDUCATION

Bachelor of Engineering Honors (Aerospace) & Bachelor of Computer Science	February 2018 – 2023
University of New South Wales, Australia	
Exchange Program / Study Abroad	September 2019 – March 2021
Munich University of Applied Sciences, Germany	
International Baccalaureate (IB)	September 2011 – May 2017
South Island School, Hong Kong	

INTERSHIP

Joby Germany GmbH	June 2021 – October 2021
Position: Manufacturing Intern	Sauerlach, Germany
<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">- 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	

SAXperformance GmbH	January 2021 - April 2021
Position: Engineer Intern	Inning, Germany
<ul style="list-style-type: none">• 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	

RELEVANT PROJECTS & COURSES

Connect Four (game)
<ul style="list-style-type: none">• Created a connect four game using C language.• Implement/Translate the exact same game but using (Assembly language)
Satellite and device communication modelling (Model)
<ul style="list-style-type: none">• Developing the backend part of a model of Satellite and device communication using Java with a focus on design patterns• Implemented the backend using task lifecycle (Analyzing ticket requirement, drawing up UML diagram, testing etc.

TECHNICAL SKILLS

<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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 members 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
<ul style="list-style-type: none">• 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 in 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 - Ongoing

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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