



DARRELL GOH RUI JIE

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EDUCATION

Bachelor of Engineering (Honours) in Mechanical Engineering | National University of Singapore

JUL 2021 – PRESENT

- Specialisation in Aeronautical Engineering
- Engineering Scholars Programme
- University Town College Programme (Residential College 4)

(Course details in Appendix A)

Summer Sessions | University of California, Berkeley

JUN 2022 – AUG 2022

Relevant courses: Dynamic Systems and Feedback, Introduction to Solid Mechanics

(Course details in Appendix A)

Singapore-Cambridge General Certificate of Education Advanced Level | Hwa Chong Institution

JAN 2013 – DEC 2018

Subjects: Physics (A), Mathematics (A), Chemistry (A)

WORK EXPERIENCE

Product Management Intern | Aimazing Private Limited

JUN 2021 – JUL 2021

- Researched and developed a new product for shopping mall analytics to aid in the company's overall restructuring and change in targeted market segment
- Spearheaded major changes and redesigns in the company's internal portal to increase efficiency in data management and tally-checking, including gathering feedback and building new features

Data Operations Intern | Aimazing Private Limited

JAN 2021 – MAY 2021

- Head of data for the company's Cashback product, in charge of designing and maintaining parsing rules for each outlet to maintain smooth flow of data and functioning of the cashback process
- Initiated and led a project to develop an onboarding package for all new Data Operations members, building a full curriculum including practice materials and tests to teach relevant skills to newcomers before deployment to separate teams, including a full introduction guide for easy referencing to relevant and useful information
- In charge of producing mid-monthly and monthly reports to each client to update them on their performance with our product

Corporal, 1st Commando Battalion, Singapore Army | Singapore Armed Forces

JAN 2019 – NOV 2020

- Awarded the Certificate of Merit for being placed in the top 10% in the Commando Signal Operators Course from March to April 2019.
- Took charge of an inventory containing thousands of dollars worth of military equipment to support key mission requirements of an entire battalion, and personally worked with key stakeholders and commanders to ensure crucial mission success under a time crunch.

SCHOLASTIC ACHIEVEMENTS/EXTRACURRICULAR ACTIVITIES

Engineering Scholars Programme | National University of Singapore

AUG 2021 – PRESENT

NUS Engineering's most prestigious programme, offering an accelerated 3-year Bachelor of Engineering degree under a full scholarship, followed by a 1-year Master of Science degree in NUS.

Residential College 4 | National University of Singapore

AUG 2022 – PRESENT

- Head of RC4 Coffee Academy (Residential College 4 Interest Group)
 - Manage liaisons with the college administration, student committees, and external parties
 - Plan events and activities to raise funds for the interest group and college, such as coffee drives and popups at events
 - Organise weekly sessions to educate residents on coffee-making practices to train to-be baristas
- Welfare Co-Head of Ursa House Committee, Residential College 4
 - Plan and organise activities to boost residents' morale especially in periods of stress
 - Prepare welfare packs and snacks for residents to enjoy at their leisure

Achievements and Activities | Hwa Chong Institution

AUG 2022 – PRESENT

- Grassroots Attachment Programme with Changi-Simei Constituency
 - Working together with the Grassroots Advisor about how the grassroots systems work, and shadowing her at local council meetings and activities
 - Developed a proposal to improve the Changi-Simei Community Library, focusing on publicising the library to the public and improving the sorting system of the library's books.
- Hwa Chong Holistic Education Certificate — Distinction Award
- Outstanding Student Award

SKILL SETS & PROFICIENCY

Mechanical Design: SOLIDWORKS, AutoCAD, Autodesk Fusion 360

Simulation: SOLIDWORKS Simulation, MATLAB, Vensim

Office Productivity: Microsoft Office Suite (Word, PowerPoint, Excel), Tableau

Multimedia: Adobe Creative Suite (Photoshop, Illustrator, Flash/Animate/Premiere Pro), Figma

Web Design: HTML, CSS, JavaScript

Database Management: PostgreSQL, SQL

Operation Systems: Windows, MacOS

Non-technical Skills: Project Management, Design Thinking, Systems Thinking

Language Proficiency: English – Excellent (Spoken and Written), Chinese – Excellent (Spoken and Written)

ADDITIONAL INFORMATION

Certifications:

- Certified SOLIDWORKS Associate in Mechanical Design (from Dassault Systèmes)
- Global Citizen (from Universitas 21 and Common Purpose)
- CS50x 2021 Certified (from Harvard University, edX)

Other activities/interests

- Coffee making
- Watching and playing sports (Basketball, Tchoukball, Football)

Degree: Bachelor of Engineering (Honours) in Mechanical Engineering (Aeronautical Engineering Specialisation)

Cumulative Average Point: 4.90 / 5.00

Year	Level	Course Description	Grades
Jun – Aug 2021	Year 0/Summer	Programming Methodology	A+
		Mathematics I	EXE
		Design and Make	EXE
Aug – Nov 2021	Year 1/Semester 1	Differential Equations for Engineering	A+
		Linear Algebra with Differential Equations	A
		Engineering Principles and Practice I	A
		Engineering Innovation and Modelling	A
		Fluid Mechanics I	A
		Human Behaviours: How Do 'I' Fit in This Social World?	S
		Thinking in Systems: Diseases and Healthcare	CS
		Career Catalyst	CS
		Jan – May 2022	Year 1/Semester 2
Quantitative Reasoning with Data	A		
Design Thinking	A		
Engineering Principles and Practice II	A-		
Intermediate Fluid Mechanics	A-		
Manufacturing Processes	S		
Fundamentals of Project Management	S		
A Social Critique of Markets in Singapore	S		
CS50: Introduction to Computer Science (Harvard University)	CS		
Jun – Aug 2022	Year 1/Summer (UCB)	Introduction to Solid Mechanics (UCB)	CS (A+)
		Emotional Intelligence (UCB)	CS (A)
		Dynamic Systems and Feedback (UCB)	CS (A-)
Aug – Nov 2022	Year 2/Semester 1	Mechanics of Machines	In-progress
		Aircraft Performance, Stability and Control	In-progress
		Finite Element Analysis	In-progress
		Liveable Cities	In-progress
		Creating Narratives	In-progress
		Infectious Diseases: Dynamics, Strategies and Policies	In-progress
		Pathways To Engineering Leadership	In-progress

NUS Grading Scale:

A+ & A (5.0); A- (4.5); B+ (4.0); B (3.5); B- (3.0); C+ (2.5); C (2.0); D+ (1.5); D (1.0); F (0)

S = Satisfactory; U = Unsatisfactory

CS = Completed Satisfactorily; CU = Completed Unsatisfactorily

EXE = Exempted; IC = Incomplete; IP = In Progress; W = Withdrawn