Gabriel Esquivel

Location: Kensington, 2033, NSW

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MECHATRONIC ENGINEERING AND COMPUTER SCIENCE UNDERGRADUATE

I am a tenacious undergraduate engineering student in my **3rd year at UNSW**. Throughout my studies, I have become fluent in many programming languages and development tools as **listed below**. As I continue my studies, I am looking to further develop my **technical skills and experiences** in industry through internships and cadetship programs.

TECHNICAL SKILLS

Languages	:	C, C++, HTML, MIPS, Python, MATLAB
CAD Tools	:	SOLIDWORKS, Fusion360
Dev Tools	:	Arduino, Verilog, openCV, LaTeX, GitHub, GitLab

EXPERIENCE

Design Engineer Intern Nov 2020 – Present
Mercury Innovation Pty Ltd *Smithfield, NSW*

- Designed and modelled functional solutions in **SOLIDWORKS** to hardware issues.
- Created insightful reports identifying problems with the companies **latest digital transport signage solutions.**
- Assisted in assembly of **digital transport signage** to develop thorough understanding of the product and manufacturing processes.

Careers Director | Arc Delegate Mar 2021 – Present
UNSW Faculty of Engineering Student Society *UNSW*

- Produced **high quality Careers-driven events** for up to one hundred engineering student attendees
- Liaised with representatives from our sponsorship companies to **develop mutually beneficial events**
- Liaise with UNSW Arc student society to **ensure EngSoc maintains within the guidelines** set by the university
- Handle the room booking and club grants application for the entirety of the society

Academic Tutor June 2021 – June 2022
Ezy Math Tutoring *Remote – Bondi, NSW*

- Worked predominantly with year 11 and 12 students teaching **Advanced Mathematics, Mathematics Extension 1 and Mathematics Extension 2**.
- Specialised in elevating below standard students to reach their potential. All students achieved **band 5 or higher**.

EDUCATION

University of New South Wales Kensington, NSW, Australia
Bachelor of Engineering (Honours) (Mechatronic) and Bachelor of Computer Science *Jan 2021 – June 2026*

PROJECTS

Personal projects *C++, Python, Arduino, HTML* Source Code

- * These projects include a **room defence system, hand/finger tracking software and a personal website.**
- * Utilise a wide range of libraries and languages including openCV, media pipe, c++, python and HTML.
- * Find these all linked in my **Github** or reach out and ask about my **engineering portfolio document.**

CERTIFICATIONS AND ACHIEVEMENTS

- * Higher School Certificate (NSW)
- * AWS Certified Cloud Practitioner (2023)
- * First place - UNSW Engineering Society Deloitte Case Competition 2021
- * Finalist - UNSW Engineering Society Dolby Case Competition 2022