

Gabriel Esquivel

www.gabrielpesquivel.com | [LinkedIn](#) | [GitHub](#) | [Leetcode](#)

Location: Kensington, 2033, NSW
gabrielpawlesquivel@gmail.com | 0426622315

MECHATRONIC ENGINEERING AND COMPUTER SCIENCE UNDERGRADUATE

I am a tenacious **undergraduate engineering student** in my **4th year at UNSW**. Through my courses, I have become fluent in many programming languages and development tools as **listed below** that allow me to tackle a diverse set of technical challenges. Alongside my studies, I have undertaken many **extracurricular** endeavours to broaden my skills in the field of engineering and computer science. I continue to seek opportunities to further develop my technical skills and experiences.

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 2021 – 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.

Embedded Systems Software Engineer January 2024 – Present
Sunswift Racing *UNSW, Kensington*

- Developing software for all sensors and electronic devices to improve the performance and reliability of a **multi-world-record holding solar car**.
- Collaborating with an **interdisciplinary team of 60+ people** to push the boundaries of solar vehicle technology.

Careers Director | Arc Delegate Mar 2021 – December 2023
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

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](#)