

# ALBERT CHOW

## PROFILE

My passion for innovation and technology drives me to seek situations where I'm constantly learning. Whether that's a new language, framework or hardware, or a new environment with different people, I'm always up for a challenge. I love opportunities to use my skills in programming and engineering to build practical systems.

## EXPERIENCE

### Atlassian

Sydney, Australia

#### Software Development Intern

Nov 2023 - Feb 2024

- Developed a service that runs on Python/Kubernetes to integrate the backend Analytics Platform with the Data Discovery Platform
- Built a service to replicate metadata from Atlassian's internal datalake to a data streaming service for use in various other services
- Produced documentation for the development and usage of the service

Python Kubernetes Software Development Teamwork Integration Documentation

### Monash University

Melbourne, Australia

#### Teaching Associate

July 2021 - Present

- Tutored subjects on numerical analysis, engineering design and programming; Matlab, Python, MIPS, algorithms, data structures, numerical methods, dynamics, circuits and project design
- Taught tutorials, labs, and lectures in class sizes up to 200, including presenting worked examples and assisting students programming, analysis and design tasks
- Conducted code interviews and marking reports for individual and group assignments
- Developed content for a new unit in the form of notes and videos

Python Matlab MIPS Algorithms Engineering Mathematics Teaching

#### Summer Research Intern

Nov 2021 - Feb 2022

- Programmed a robotic arm in Python/ROS to collaboratively build domino lines with a human
- Studying trust development and repair between humans and robots in collaborative tasks

Python ROS Robotics Research Psychology

### Monash Motorsport

Monash University

#### Electrical Systems Engineer

Apr 2020 - Jul 2021

- Development of an autonomous electric racing vehicle for Formula Student Competitions
- Designed, manufactured and tested a system to deliver high voltage power throughout the car; tested and calibrated an inverter to control a permanent magnet synchronous motor
- Co-ordinated work in a team of over 100 people to ensure smooth integration with other parts

Electrical Engineering Automotives Manufacturing Siemens NX Teamwork Integration

#### Senior Advisor

Mar 2021 - Jun 2021

- Advisor to new recruits; organising and running activities for the recruits
- Teaching various skills, ranging from manufacturing skills to Solidworks to electrical theory
- Managing and marking Junior Projects for the recruits' university design subject

Teaching Electrical Engineering Solidworks

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- Melbourne, Australia

## EDUCATION

### Bachelor of Engineering (Hons) and Bachelor of Science

Monash University | 2018 - 2024

Mechatronics Engineering  
Specialisation

Computational Science Major  
Mathematics Major

### Certificate III in Laboratory Skills (MSL30109)

Box Hill Institute | 2015 - 2016

## CERTIFICATIONS

### Monash Industry Skills

Chisholm Institute | 2021

### Certified Solidworks Associate (Mechanical Design)

Dassault Systèmes | 2020

### Working With Children Check

Victorian State Government | 2020

## SKILLS

### Programming & Coding

Python, MATLAB, Javascript, Typescript, MIPS, C, Git, CLI

### Manufacturing & Engineering

Machining, 3D Printing, Electronics

### CAD & Design Software

Solidworks, Siemens NX, Ultimaker Cura

### Soft Skills

Teaching, Teamwork, Integration, Documentation

## INTERESTS

Beatboxing Music  
Swimming Cycling  
Electronics Gardening