ALBERT CHOW

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📍 Melbourne, Australia

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 data discovery
- Built a service to replicate metadata from Atlassian's internal datalake to a data streaming service
- Produced documentation for the development and usage of the service and integration

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 collbaboratively 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

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