Oliver Patterson

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EDUCATION

Royal Melbourne Institute of Technology — **Melbourne, VIC**
Associate Degree of Engineering Technology (Computer and Network) — *Graduated: 2021*

Royal Melbourne Institute of Technology — **Melbourne, VIC**
Bachelor of Engineering (Computer and Network)(Honours) — *Graduated: 2022*

Royal Melbourne Institute of Technology — **Melbourne, VIC**
PhD (AI Voice Processing) — *Ongoing: (Expected 2027)*

EXPERIENCE

The Douglas Club, Hilton — **Melbourne, VIC**
Cocktail Bartender — *Apr 2021 - May 2022*

- Assisted in creation and development of drinks for the menu.
- Engaged with customers to educate them on the history of drinks and spirits.
- Crafted cocktails with flair while entertaining customers.

Self-Employed — **Melbourne, VIC**
IT Consultant — *May 2022 - Sep 2022*

- Created bulk update processes for the migration of payroll systems.
- Setup automation tools to streamline business processes.
- Analysed and streamlined the management of payroll system datasets.

SeeingMachines Ltd. — **Melbourne, VIC**
Software Engineering Intern — *Jan 2023 - Aug 2023*

- Developed tooling for live embedded development and testing.
- Reworked the build system for a custom Linux OS to reduce build times by 85%.
- Established Continuous Qualification for the Linux OS using the Open Group Test Suite.

SeeingMachines Ltd. — **Melbourne, VIC**
Embedded Software Engineer — *Aug 2023 - Present*

- Maintained and improved a legacy C++ codebase, improving code-coverage by 30%.
- Validated machine-learning and image processing libraries in FORTRAN, C, and other languages.
- Engineered frameworks for running AI models on more efficient embedded devices.

PROJECTS

S.H.A.D — *July 2019 - November 2019*

- Managed project team to develop an Access-Controlled Secure Storage System.
- Implemented encryption services on a NAS device.
- Created custom network protocols for triggering encryption and decryption of NAS profiles.

Engineering Capstone Project — *February 2022 - November 2022*

- Lead the development of a wearable stress monitoring system on an embedded device.
- Assessed sensors for collection of physiological signal data.
- Managed the project team and maintained consistent communication with stakeholders.
- Created novel monitoring procedures for stress to validate collected data.

ADDITIONAL

Programming and Technical Ability

- Wrote scripts in Python, POSIX Shell, and R for data analysis, general scripting, and other tasks.
- Implemented hardware control in C and assembly on RISC-V and ARMv7 based MCUs.
- Designed a custom special-purpose CPU architecture running on a custom reduced ISA.
- Developed complex and robust real-time systems using C and the QNX RTOS.