

Riley Mcilwain

Phone

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Email

r.mcilwain2000@gmail.com

Website:

<https://rileymcilwain.com>

GitHub:

<https://github.com/rileymci>

Work Objective

I am currently seeking an internship/ junior position. Along with that, to gain valuable experience and knowledge working in a highly regarded corporation. I look forward to working hard towards my goals and exceeding expectations in my field of passion. Personal growth is a heavy focus of mine. I am always looking to improve in all aspects of my career. You can always improve upon your failures. Hard work and perseverance I believe are important values to your success.

Education

Degree: Bachelor of Engineering – Computer & Software Systems (Honours)
Queensland University of Technology
2018-Present
Expected Graduation in Mid-Year 2024

Projects

PYNQ FPGA – Edge Detection Thesis | VHDL, C, Python, Vitis

- Implementation of the Sobel and Canny edge detection algorithms on the FPGA using C language
- Used parallel capabilities of the FPGA
- Highly efficient edge detection on the PYNQ in comparison to Python software

Personal Portfolio Website | HTML, CSS, JavaScript, React, Git

- Developed in the React framework
- Showcasing side and university projects completed
- <https://rileymcilwain.com>

Motor Embedded System | C, Motor Design

- Designed an embedded system for a motor using a microcontroller
- Motor controlled in real-time using C language

Drone UAV Payload | Python, CAD, Raspberry Pi

- 3D printed rack and pinion attachment for a sampling tube
- Servo motor controlled and programmed with a Raspberry Pi in Python
- Responsible for collecting a simulated soil by extending and retracting in a linear motion

Technical Skills

IT Skills:

- Coding languages – C, C++, C#, Java, Python, SQL, VHDL, CSS, HTML, JavaScript
- Tools - MS Office, Git, MATLAB, VSCode
- Notable Libraries/ Frameworks – React, Node.js
- Technologies – Object-Oriented Programming, API development

Embedded Systems Skills:

- Experience with Arduino, and other microcontrollers (C, C++ languages)
- Raspberry Pi microprocessor
- Experience with FPGAs (VHDL languages)
- Circuit design
- Analog & digital electronics
- Digital signals & image processing

Skills

Teamwork: I understand the importance of effective teamwork in achieving a common goal. This has been instilled into me through many years and past experiences at recreational sports, university and through my professional career.

Communication Skills: I have very clear written and verbal communication skills which allows me to effectively convey objectives and tasks. I understand this is a pivotal skill in the workplace and role this plays in an efficient team environment.

Initiative: I always look for ways to continuously improve the work I conduct to improve efficiency whilst maintaining high standards. I like listening to constructive feedback and will ask many questions on how my work can be improved.

Interests:

I have a very keen interest in a variety of sports due to my competitive nature. I program and use microcontrollers for personal projects which enables me to gain knowledge and real-life experience outside of the classroom. I also have a keen interest in travel and exploring new experiences for personal growth

Paid Employment

Underwood Seafood Market [2018 - Current]

Junior Floor Manager / Seafood Processor

Developed leadership and coaching skills early in my career which have been continually improved since. A high standard of communication for teamwork & customer service.

JD Sports [2022 – 2023]

Sales Assistant

Required customer service and multitasking skills in a high paced environment. Teamwork a vital part of the role.

Private Home Math Tutoring [2018-2019]

Tutoring

Working as a tutor to mentor and teach high school mathematics and other various subjects to clients.

Queensland University of Technology [2018]

Note-Taking

Employed to make and present clear and concise learning materials to students.

Referees

Alex Tran: Underwood Seafood Market Supervisor

Phone: 0407 067 559

Michael Rangiaho: JD Sports Manager

Phone: 0450 910 692

Dr Jasmine Banks: QUT Research Supervisor

Email: j.banks@qut.edu.au

Written References are attached below



UNDERWOOD SEAFOOD MARKET

Phone (07) 3423 3934

Alex Tran
Underwood Seafood Market
2952 Logan Rd, Underwood
QLD 4119
31 October 2023

To Whom It May Concern:

Riley Mcilwain has been under my employ on a casual basis for the past five years as a Seafood Processor. He is considered one of our senior peers in his area and demonstrates the highest level of competence in the production area of the business. Riley is trained in the preparation, assembly, and in the set up and deconstruction of the area. He fulfils these duties with utmost care to ensure quality and safety standards are met. He is always very responsive to feedback, and always strives to meet his quality, accuracy, and cleanliness targets.

As Riley has shown great proficiency and dedication to his work, he was developed into one of our Junior Managers and successfully passed on his knowledge and work ethic to new and existing crew. He successfully builds excellent rapport with his team and ensures they are meeting targets and high working standards. Not only does he have an excellent relationship with the crew base, but additionally with our higher management team, as they trust him to lead the area, and he trusts us enough to provide feedback in order to improve the business.

Having worked with Riley for the past several years, I can personally vouch for his impeccable work standards, and his dedication to producing quality service. I believe Riley to be an integral part of our Production team and hope to see him further grow within our business. However, that being said, he would quickly become an asset to any team he is brought into and handle any workload handed his way.

If you would like additional information about Riley, you can telephone me at 0407 067 559.

Sincerely,

Alex Tran
Supervisor

ADDITIONAL CORRESPONDENCE TO:

Underwood Seafood Market	ABN 58 532 509 529	2952 Logan Rd, Underwood QLD 4119
ADMINISTRATION: Phone: 3423 3934		