

Aidan Wilson

Electrical Engineering and Computer Science Student

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Driven, reliable 3rd year undergraduate double degree student at Queensland University of Technology. Seeking a challenging role to leverage prior knowledge and gain real-world experience. Motivated to learn from senior members of industry while sharing innovative ideas and concepts.

PROJECTS

Design and Implementation of Digital Voice Recorder (DVR) System 2024

Analogue Circuit and PCB Design

- Designed and built multi-stage Chebyshev filter analogue input conditioning circuitry seated on a manufactured PCB
- Use of Autodesk EAGLE, LTspice, and MATLAB
- Implemented the system using ADC for input and PWM for output, ensuring compatibility with provided firmware
- Experimental testing and development process utilising oscilloscopes and virtual testing data
- Enhanced DVR functionality with innovative features, optimizing within system limitations

React-based AI Banking Recommendation Tool and Pay Splitter 2024

2024 Westpac 'Bank of the Future' Hackathon Submission

- Integrated OpenAI APIs through JSON parsing to deliver personalized banking recommendations and pay splitting functionalities, leveraging trained LLM data for enhanced user experience.
- Developed a dynamic user interface with intuitive sliders and options for splitting pay, ensuring effective financial management and saving motivation.
- Employed agile development methodologies to support iterative progress and rapid prototyping, completing the project within the 48-hour hackathon timeframe.
- Pitched the project to a panel of judges, showcasing advanced skills in React, Node.js, API integration, and user-centric design.

Express.JS Application with API Documentation Development, Deployed on Microsoft Azure 2023

Front and Back-end development

- Utilisation of JavaScript API calls to access real world live data
- Microsoft azure server setup and runtime maintenance
- Technical usage of MySQL database and error handling
- Creation of thorough Swagger API documentation for maintainability
- Efficient file management and organisation including images, numerous stylesheets and icons

Implementation of 'Simon-Says' style game on Custom Microcontroller 2023

Backend development and physical implementation

- Usage of ATtiny1262 microcontroller to produce a fully-functioning memory game
- Implemented core logic in C, incorporating assembly language routines for time-critical tasks and hardware interfacing
- Integrated a potentiometer for input, a 7-segment display for output, and a buzzer for audio feedback
- Demonstrated expertise in embedded systems programming, C, and assembly language

EXPERIENCE

Kitney Toolkit

Information Technology Intern –Technician, Consulting, Support

Rocklea, Brisbane

Jun 2023 – Sep 2024

- Producing all-round internal solutions for clients specialising in WH&S using Power automate, Power BI and SharePoint
- Involvement in large-scale team projects
- Communication with clients to assess business needs and required specifications of solutions

Sky and Lotus Rooftop Lounge and Nightclub

Venue Manager

Fortitude Valley

Jan 2023 - Present

- Supervision and direction of bar, floor, promotional, and security teams
- Provision of regular training, staff development and compliance protocol
- Stock maintenance and product acquisition
- Generation of promotional material and advertising campaign
- Production of weekly rosters to suit venue and staff needs
- Supervision of employees during and after trade, complying to venue standards

EDUCATION

Queensland University of Technology

Bachelor of Engineering (Honours) (Electrical) / Bachelor of Information Technology (Computer Science)

Brisbane, Australia

2022 - 2026

GPA: 5.5/7

Extracurricular: Electrical Engineering Student Society, Mechanical Engineering Student Society, QUT Code Network

Relevant Coursework: Information Security, Discrete Structures, Software Development, Web Development, IT Systems Design, Microprocessors and Digital Systems, Database Management, Electronic Design, Electrical Engineering Mathematics, User Experience Fundamentals

Mansfield State High School

QCE/ATAR

Brisbane, Australia

2016 - 2021

ATAR: 96.10

Extracurricular: Technology Integrated Curriculum Program, Football Development Program, UK Football Tour

Awards: Academic Excellence '16, '17, '18, '19, '20, '21

LINKS

LinkedIn

<https://www.linkedin.com/in/aidan-w/>

GitHub

<https://github.com/afne>

Website

<https://aidanwilson.me/>

REFERENCES

Michael Chu

Current Conference & Events Operations Manager at Sofitel Brisbane Central

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Amber Morewood

Previous Banquet Operations Manager at Customs House (University of Queensland)

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