

# Luke Banicevic

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## WORK EXPERIENCE

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### ResMed Pty Ltd

*Software Engineer – Product Development*

**Dec. 2021 – Present**

*Bella Vista, Sydney*

- Spearheaded the implementation of data post randomization across two critical platforms (written in C++ and Python), positively impacting over 1 million devices. This resulted in a notable reduction in server loads, optimizing system performance.
- Founded and led a C++ study group, fostering collaborative learning among a team of over 60 engineers. This initiative significantly deepened our collective expertise in software engineering, leading to increased team effectiveness.
- Applied advanced problem-solving skills to address challenges in various large-scale projects, impacting global customers. Notable achievements include callbox testing of cellular modules across various cellular technologies to ensure device connectivity for customers despite supply shortages.

### Deloitte

**Nov. 2022 – Feb. 2023**

*Summer Vacationer – Platform Engineering*

*CBD, Sydney*

- Led a team of 3 interns to develop a cost optimization blueprint for Deloitte's future clients using AWS services such as Trusted Advisor, Cost Explorer, and Budgets.
- Actively engaged in self-directed learning through Udemy courses, acquiring proficiency in AWS and microservices, and applied this knowledge to a hands-on AWS intern project.

### UNSW Solar Racing Team – Sunswift Racing

**Feb. 2020 – Dec. 2021**

*Embedded Software Engineer – Embedded Systems Team*

*Kensington, Sydney*

- Embedded Systems developer responsible for the design of UNSW's Solar Car racing team Sunswift in collaboration with a multidisciplinary engineering team, competing in the 2021 Bridgestone World Solar Challenge.
- Designed and built an Autonomous Driving Assistance System using OpenCV computer vision library written in C++.
- Programmed CAN bus nodes interfaced with vehicle drive by wire systems programmed in C.

## NOTABLE PROJECTS

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### Personal Website

- Developed a dynamic personal website using React, HTML, CSS, and Material UI, showcasing proficiency in front-end technologies and responsive design principles for optimal viewing on both mobile and laptop screens.
- Implemented animations and incorporated a functional contact form, demonstrating a keen eye for user experience and interactivity in web development.

## EDUCATION

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### University of New South Wales (UNSW)

**Feb. 2018 – Jan. 2023**

*B.E Computer Science, B.E (Hons) Mechatronic Engineering*

*Kensington, Sydney*

- Relevant coursework: Engineering Design 2 (HD) Programming Fundamentals (HD) Database Systems (HD) Object Oriented Design & Programming (D) Data Structures and Algorithms (D)
- Societies: UNSW Solar Racing Team Sunswift, UNSW Heroes Program, UNSW Chess Club

## SKILLS & INTERESTS

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**Skills:** C/C++; Python; JavaScript; React; Bash; SQL

**Interests:** Weightlifting; Space; Reading; Chess; NBA;