

Michael Poulgrain

Software Engineer

📍 Brisbane, Australia 📞 0493766533 @ michael.poulgrain@gmail.com DOB: 09/02/1994

Summary

Hard working electrical engineer looking for a career-shift to software engineering. Previous experience in both the biomedical and electrical engineering field which developed teamwork and communication skills as well as an independent work ethic. Seeking new experiences and challenges. Lifelong learner who works well under pressure.

Experience

Sota Service

2023 - 2024

Electrical Engineer

São Paulo, Brazil

🔗 <https://sotaservice.com.br/>

- Conducted grounding analysis studies including ground fault current, touch and step voltage calculations and lightning protection for substations within Brazil.
- Developed an electron desktop application to calculate ground fault current along a transmission line to improve speed and accuracy of results.

Nova Biomedical

June 2018 - June 2021

Biomedical Engineer

QLD, Australia

🔗 <https://www.novabiomedical.com.au/>

- Preventative and corrective maintenance of medical devices including ventilators, ultrasound, hospital networks as required by AS/NZ 3551
- Installation of patient monitoring in hospitals across AU/NZ.
- Project management and implementation of field corrective orders for BD and Philips Healthcare across AU/NZ.
- Developed and maintained business applications for record-keeping and asset management both internally and for the Royal Flying Doctors Service QLD.

Various International Work

2016-2018

After graduating from university, I spent 18 months traveling through Europe, North Africa and Asia. During this time I volunteered at over 10 different jobs in a range of countries and fields including working with animals at a farm, cooking, building natural homes and working in a remote mountain hiking hut. Working in these various fields is a testament to my enjoyment of learning new skills and my ability to quickly adapt.

A Team Tuition

2014-2016

Academic Personal Trainer

QLD, AU

🔗 <https://ateamtuition.com/>

- Tutored grade 4 to university students in Maths, English, Science and Engineering.
- Good outcomes with children were achieved by successfully communicating and then motivating them to develop time management skills and self-confidence.
- Worked with students with learning disabilities and was able to adapt to different students strengths and weaknesses.
- Liaised with parents about their children's achievements and difficulties. At times unrealistic expectations needed to be highlighted for the benefit of all.

Projects	Transmission-Lines 2023	
	Desktop Application: Fault Current Analysis https://github.com/Michaelp1994/transmission-lines/ During my time at SOTA Service, I built a complete desktop application to calculate the fault current along a transmission line during fault conditions. This was built on top of the open source OpenDSS software. The aim of the project was to simply the overly complex building of circuit models and dsisplay the results in easy to understand diagrams. React, Electron.js, Node.js, ORM, Testing, tRPC	
	Workshop Management Tool 2021 A web application built to track workshop repairs. https://workshop-repairs-nine.vercel.app During my time at NOVA Biomedical, I built a simple web application for the company to track repairs being done at the warehouse. Before it's implementation, there was no structured system for management and there was often problems caused by paperwork being lost or repairs not being properly billed to customers. Although simple, the system is still in use to this day. Nextjs, Reactjs, Nodejs, HTML5, Tailwind, PostgreSQL	
Education	Griffith University 2013 - 2016	
	Bachelor of Engineering (Electrical & Electronic Engineering) 5.7 GPA https://www.griffith.edu.au/ <ul style="list-style-type: none">Class IIA Honours, 5.7 GPA (7.0 scale)Awarded Griffith Award for Academic Excellence 2014Distinction in thesis, "The application of weather forecasting in small scale solar photovoltaic (PV) grids." undertaken at Rhine-Waal University of Applied Sciences in Kleve, Germany	
Certifications	Meta Front-End Developer January 2024 Coursera Certificate	
	Meta Back-End Developer January 2024 Coursera Certificate	
	Meta Database Engineer January 2024 Coursera Certificate	
Skills	Web Design & Development HTML, CSS	Programming Languages Javascript/Typescript, PHP, Python
	Frontend Frameworks React, Vue.js	Backend Frameworks NextJS, Express.js, Django
	Database Management Systems PostgreSQL, MySQL, SQLite, DrizzleJs, Prisma, TypeORM	Developer Tools Git, Github, AWS
Languages	English ● ● ● ● ●	
	Portuguese ● ● ● ○ ○	
References	Joe Welch Service Manager, Nova Biomedical joe@novabiomedical.com.au	
	Thiago Brizio Head Electrical Engineer sota.brizio@gmail.com	