

Stephen Julian - Curriculum Vitae

NCEE • NZDE (Electronics) • BEngTech (Electrical) • BInfoTech
ENZ (Student) • EEA (Graduate as of April 2022)

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Objective

To develop and apply my skills in Hardware, Firmware, Software, Server Systems & Telecommunications in the fields of Information Technology, Electrotechnology and Internet of Things (IoT).

Personal Statement

I'm a highly motivated team player looking for new opportunities in the technology industry.

My background is in software development which I'm now diversifying into electronics hardware and firmware through working in the emerging field of Internet-of-Things (IoT).

I have four industry recognised qualifications in Electrical Engineering and Information Technology. My industry skills, knowledge, strengths, training and work experience are extensive and summarised in these pages and on my LinkedIn profile.

Technical challenges are my forté and with these I expect to be a valued asset in a Team. We are limited only by what we believe to be possible and I'm inspired to prove this in my work. For further information please feel free to contact me by any of the methods at top of this page.

Industry Skills & Knowledge

Industry skills and knowledge in Electronics Engineering and Information Technology include:

Engineering Knowledge	Problem Analysis	Engineering Solutions	Investigation
Modern Tool Usage	The Engineer and Society	Environment & Sustainability	Ethics
Individual & Teamwork	Communication	Project Management	Lifelong Learning

Technical Strengths

Technical strengths include hardware, firmware, software, server systems and telecommunications:

Software Development	Internet of Things	Electronics	Server Administration
Agile & Waterfall	Single Board Computers	Electronics Assembly	Linux / VPS / Cloud
Technical Writing	Microcontrollers	Circuit Schematics	CLI / BASH / Shell / Batch
Source Code Management	Firmware & Embedded	EDA Tools for PCB Design	ICT Security
Full Stack Development	RTOS	Sensors & Actuators	Data Networking
REST API	FPGA / Verilog	Barcode / UPC / QR Code	Telecommunications
Databases	Rapid Prototyping	RFID & NFC	Simulation Tools

Employment Experience

Hardware & Software Systems Engineer (Sep 2019 - Mar 2020 and Aug 2021 - Present)

Where: BizKiwi NZ (Auckland, Queenstown)

Scope: Contracted services building concept prototype monitoring devices for a medical device manufacturer. Firmware and server development for monitoring sensors, driving actuators.
Microcontrollers, Arduino, Firmware, Sensors, Actuators, Sigfox ThinXtra, OG, 2G, 3G, Internet of Things (IoT), Cryptography, MQTT, AWS IoT Core, AWS DynamoDB.

Ecommerce Solutions Developer (Mar 2010 - Aug 2021)

Where: BizKiwi NZ (Auckland, Queenstown, Invercargill)

BizKiwi is my personal brand through which I provide contracted technical services.

Scope: Contracted services building B2B and B2C websites for the Shopify ecommerce platform. Shopify themes customisation/optimisation for security, speed, enhanced conversion ratios.
Search Engine Optimisation (SEO), Google Analytics, Google Search, Lighthouse, Permission Marketing, Blog, Social Media, Facebook Marketing, Google Adwords, StockSync FTP Feed, Google Sheets, Database, Product Images, UI/UX, Liquid, HTML/CSS/JS, REST.

Other: *Branding, Logos, Business Cards, Stationery, Flyers, Banners, Vehicle Signage, QR codes.*

Hardware & Software Systems Engineer (Dec 2014 - June 2018)

Where: BizKiwi NZ (Auckland, Queenstown, Invercargill)

Scope: Contracted services building QMS & order tracking systems for Restaurant & Hospitality industry. Development of software, firmware, hardware and hosted server systems.
Order Ready Management, Product Timer, QMS, Build Training System, Environment Sensor, Touchscreen, Embedded, Web, Mobile, Network, Cloud, Wireless, Real-time Monitoring, RS-232, Laravel, REST API.

Contract Developer and Technician (June 2008 - Mar 2010)

Where: Self-Employed (Auckland, Queenstown, Invercargill)

Scope: Technical Consultant for the Digital Imaging, Creative and Hospitality industries. Activities included installation of wired and wireless network infrastructure as well as PoE-based CCTV monitoring systems in restaurant environments.

Web Developer & Technical Trainer (Apr 2006 - June 2008)

Where: MediaMind Group (Auckland, New Zealand)

Scope: Web Developer & Technical Trainer working with: *HTML/JS/CSS, ASP.NET, MS SQL Server.*

Software Developer & Technical Consultant (Mar 2002 - Apr 2006)

Where: Fish Logic Limited (Auckland, New Zealand)

Scope: Service provision for the Electronics, Digital Imaging and E-commerce industries. Activities included systems integration, electronic device assembly and testing.
Design, branding, logos, business cards, stationery, brochures, reports, banners, promo.

Academic Qualifications

Four industry and NZQA recognised qualifications in Electrotechnology and Information Technology:

Master of Information Technology - MInfoTech 🗓️ ETA Nov 2024

Where: Southern Institute of Technology (Invercargill, New Zealand)

When: July 2022 to Nov 2024 (In Progress Part Time)

Major: Internet of Things, Embedded, Cloud Server Systems.

Other: Level 8 Applied Project: Embedded Payroll Time Clock (TBC)

Hardware Systems: *Microcontrollers, NFC, QR Code, EEPROM, RTC, WiFi, BLE, POE, PCB Design*

Server Systems: *AWS (IoT / DynamoDB / Lambda / Amplify / React / S3 / AppSync) + Figma*

Level 9 Research Project: Machine Learning Vision (TBC)

Bachelor of Engineering Technology - BEngTech (Electrical) ✅ Graduated

Where: Unitec Institute of Technology (Auckland, New Zealand)

When: July 2018 to Nov 2021 (Graduated)

Major: Electronics, Microcontrollers, FPGA, PCB Design, CAD Design, Internet of Things (Level 7).

Other: Electronics Design Project (Wireless Sensor Monitoring Device - design and build).

MATLAB, Scilab, MultiSim, Autodesk SolidWorks, Autodesk AutoCAD, Atmel Studio.

New Zealand Diploma of Engineering - NZDE (Electronics) ✅ Graduated

Where: Unitec Institute of Technology (Auckland, New Zealand)

When: July 2016 to 2018 (Graduated)

Major: Electronics, Microcontrollers and PCB Design for Manufacture (Levels 4, 5 and 6).

Other: Project: RS-232 Serial Monitor - real-time data packet interception, analysis, events).

National Certificate of Electrical Engineering - NCEE ✅ Graduated

Where: Southern Institute of Technology (Invercargill, New Zealand)

When: Feb 2016 to June 2016 (Graduated)

Major: Electrical Engineering Unit Standards (Levels 2 and 3) recognised by NZQA and EWRB.

Other: Certificate in Intermediate First Aid (6400, 6401, 6402).

Certificate in Hand Operated Fire Fighting Equipment (Practical & Theory).

Engineering Trades Scholarship recipient awarded by Invercargill Licensing Trust.

Bachelor of Information Technology - BInfoTech ✅ Graduated

Where: Southern Institute of Technology (Queenstown and Invercargill, New Zealand)

When: Feb 2012 to Nov 2015 (Graduated)

Major: Internet-of-Things (IoT), Full Stack Development, Software Engineering (Levels 5, 6, 7)

Other: Double Project: Interactive 360 degree Digital Imaging System

Mobile Application Development, Web Application Development (Post-Grad. Level 8)

Student Peer Tutoring (employed by SIT), W3Schools Training (HTML/CSS/JS)

Extramural Training

2016 : Certificate in Fire Safety (SIT)

2016 : Certificate in Intermediate First Aid (SIT)

2013 : Silverstripe Framework and CMS (SIT)

2012 : WordPress CMS (SIT)

2012 : Achievo ATK Framework (SIT)

2012 : PHP / MySQL (SIT)

Industry Portfolio

Feb 2022+ : BizKiwi Portfolio website - <https://bizkiwi.nz>

Jan 2022+ : BizKiwi Github Projects, Open Source Repositories - <https://github.com/bizkiwi/>

2012+ : LinkedIn Profile - <https://linkedin.com/in/bizkiwi/>

Professional Memberships

2021+ : Electricity Engineers Association (EEA) - Graduate Member (April 2022+)

2018+ : Engineering New Zealand (formerly IPENZ) - Graduate Member

References

Referees, References and Academic records are available on Request.