David Tulloh

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An experienced technical lead looking to pivot into management to further increase the impact I can have.

I have a broad base of technical experience as a SRE, software developer, hardware developer, team leader and project leader. I provide creative solutions and deliver complex projects.

Education:

‣ Global Executive Master of Business Administration Duke University 2024
‣ Bachelor of Engineering with Honours Australian National University 2004
‣ Bachelor of Information Technology Australian National University 2004

Capricorn Space
Aug 2024 ⇨ Feb 2025

Australian owned and operated ground segment service provider for the space industry.

Engaged specifically to drive critical technical change.
Key Achievements:

- Rearchitected alerting systems to provide clearer signals and reduce cognitive load of those on call.
- Rearchitected monitoring and control systems to improve operation visibility and significantly reduce ongoing licence costs.
- Improved the company's development, deployment and testing patterns.

Planet
June 2021 ⇨ Aug 2024

An earth observation company manufacturing and operating over 200 satellites to provide responsive and quality imagery.

Led a rebuild of Planet's global ground station server systems, and worked on a range of other shorter term projects.

- Developed and maintained working relationships with internal and external stakeholders located across the world.
- Rearchitected the ground station server deployment automation, driving acceptance and adoption. This significantly reduced the system complexity improving reliability, enabling new functionality and increasing development speed.
- Participated in the design and implementation of the next generation of Planet's satellite communication systems. Through documentation drove cross team coordination, system design changes and reliability improvements.
- Prototyped future changes including high availability server design, monitoring alternatives and network hardening.
- Maintained high reliability operational service delivery as the third timezone.

FifthDomain
Apr 2020 ⇨ May 2021

A cyber security training provider, delivering a platform and services to Defence and educational institutions.

Reporting directly to the CTO, led delivery of complex technical solutions and systems reliability engineering services while managing diverse project teams and key stakeholder relationships.
Key Achievements:

- Led development and successful delivery of a cyber skills competition for 700+ Defence participants under a compressed timeline.
- Co-designed an exercise environment for Defense's joint cyber units to prove their operational readiness. Then led a team to develop the environment and operate it for the exercise.
- Managed staff in a remote and then hybrid environment including contractors and a client placement.

UNSW Canberra Space
Apr 2019 ⇨ Mar 2020

UNSW Canberra Space designs and builds satellites for research purposes.

As a senior member of the electronics engineering team at Australia's leading satellite production group, I:

- Developed hardware, firmware and software elements of next generation satellites;
- Performed manufacturing, testing and process improvement; and
- Developed business plans for expansion of the organisation's electronics capability.

This role involved navigating and reconciling competing cultural expectations between business, academic and defence stakeholders.

Self Employed

Jan 2015 ⇨ Jan 2019

Worked on independent products to meet gaps I observed in the market.

Enabled by a significant shift in my partner's career, I explored entrepreneurial opportunities including:

- Developed innovative products to prototype stage;
- Explored manufactory partnership and regulatory considerations;
- Developed comprehensive business assessment leading to the conclusion the product, while technically sound, was not commercially viable.

Northrop Grumman

July 2012 ⇨ Oct 2014

M5 Network security, a branch of NG, designs and manufactures devices to facilitate secure communications over insecure networks.

Developed firmware for multiple systems as well as contributing to the electronics design, testing and certification processes.
Key achievements in this role include:

- Developed firmware for the next generation of product across multiple cooperating microcontrollers.
- Supported the support team and developed fixes for older, contractor developed products.
- Achieved Australian telecommunications certifications.
- Performed Tempest testing and certification.
- Liaised between hardware and software development teams.

Australian Antarctic Division

Aug 2010 ⇨ Apr 2012

The AAD maintains several stations on Antarctica to support scientific research.

As the support engineer I spent three seasons living at Davis Station, I was responsible for providing technical assistance to over twenty different experiments.
Key achievements in this role include:

- Maintained equipment including atmospheric radars, lidars, and observation systems.
- Lived and worked closely with a diverse group of people.
- Led multiple field teams and performed deep field work.
- Led visits to foreign stations.

Older Jobs

Oct 1999 ⇨ Aug 2010

- 2009-2010 — Airservices Australia — Safety data analysis
- 2006-2009 — Signav — Firmware and Manufacturing
- 2005-2006 — Center for Mental Health Research, ANU — Web developer
- 2004-2004 — Burgmann College — Technical support
- 1999-2000 — TekNet/ACTweb dialup ISP — Business client support

Volunteering

TADACT
Mar 2014 ⇨ Nov 2025

Technology for Aging and Disability, ACT

Volunteer and Board Secretary.

As a volunteer I have been developing marketing plans to reinvigorate TADACT.

My original involvement with TADACT started as a volunteer in 2014, ceasing when I moved to Geelong and only recently being reinvigorated in 2025.

linux.conf.au
Jan 2015 ⇨ Nov 2025

Technology conference with a focus on linux and other open source technology

- Volunteered LCA Canberra 2005
- Organising committee LCA Canberra 2013
- Organising committee LCA Canberra 2021 & 2022 (cancelled due to COVID)
- 2016 - Presentation, Linux driven Microwave
- 2017 - PyConf Presentation, Rapid GUI development for IOT systems
- 2018 - Lessons from three years of volunteering to teach students code
- 2020 - Tutorial, Kicad for software developers
- Organising committee Everything Open Canberra 2026

Victoria State Emergency Service, Bellarine Unit
Jan 2015 ⇨ Apr 2019

Respond to floods, storms, and rescues such as car accidents

I was a senior member of the VICSES, a volunteer emergency response service responsible for storm, flood, rescue and assisting other emergency agencies on the Bellarine peninsula.

As Deputy Controller of Operations of the Bellarine unit I developed my leadership and management skills. I managed a team of six volunteers with responsibility for ensuring our operational readiness through ongoing maintenance, scheduling and planning. Working with highly skilled members I enabled their work by liaising with external stakeholders, acquiring the equipment and coordinating significant work. As a member of the unit management team I also intervened on personnel issues, particularly those arising during operations.

During significant localised storm events I performed the role of divisional commander setting the strategy for the response. This involved coordinating teams on the ground, managing logistics such as meals and transport, ensuring team member wellbeing including managing fatigue, triaging jobs, liaising with incident control staff, and managing CFA support. During these events I led over eighty responding personnel at the Bellarine unit.

CSIRO STEM Professionals in Schools
Jan 2015 ⇨ Apr 2019

Partnering with a teacher to support students

The CSIRO STEM Professionals in Schools program matches school teachers with STEM professionals to enhance science and technical learning in classrooms.

For four years I attended the Bellarine Secondary College weekly to assist the IT teacher with senior classes. Working predominantly with year twelve students, I assisted with specific technical problems, helped guide their learning and provide real world grounding for what they learn. Having an extra pair of hands in the classroom allows for extra one on one guidance for students who are struggling or students who are open to extension activities to help them grow.