

CV

London
United Kingdom

- Citizenships -

- Australia
- Germany

- Skills -

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Technical & related skills

- GNU/Linux Open Source developer for many decades
- Lead developer & founder Enlightenment: <http://www.enlightenment.org> - X11+Wayland window manager & compositor, application toolkit libraries (rendering (CPU, GPU), GUI, Middleware, etc.), Video + Music player (Rage), Terminal emulator (Terminology). 1.5 million lines+ of C
- Graphics & rendering code (low level routines/assembly, hardware interfacing, OpenGL, OpenGL-ES, ARM SoC's), high performance pipelines etc.
- Graphics layers from image processing & rendering up to application GUIs (UI toolkits, input too etc.)
- Image formats encode/decode, 3D rendering, animation, 2D UI and UX design and implementation
- Virtual keyboard development and design
- Window management, display systems, compositing, widget sets and toolkits etc.
- Audio mixing and effects
- GTK+, X11 (X-Windows), Wayland display system/protocol, DRM/KMS
- Media codecs (MPEG etc.)
- Core application loops, IPC and queues and other API library design and implementation
- Data storage & data serialization etc.
- Windows CE
- Shell scripting (sh/bash)
- HTML/CSS
- C/C++, Assembly, PHP, Javascript, Java, Perl, Python, Modula-2, M68k assembly, Miranda, Rust
- Cluster/server/cloud management
- Operating system build infrastructure (OE/Yocto, OBS, RPM/spec files, Arch/PKGBUILD, Debian build files, Scratchbox etc.) as well as design
- Build infra/systems (Autoconf/automake/libtool, pure make, meson, some cmake).
- Network management
- Consumer/embedded device software development
- Software architecture & design
- System library API development, design and implementation
- Early OS boot optimization (fast boot – in ~1.3seconds with Linux) etc.
- Tizen OS (smart phones, watches, TVs, fridges, IoT...)
- EDK2 UEFI development (acpiview/RAS)
- Linux kernel

Soft skills

- Team/group lead (varying sizes from ~5 to ~40+)
 - International teams spread across countries
 - Mentoring, technical direction and evaluation
- Project management and direction/planning at various levels
- Global experience
 - North America (USA)
 - Australasia (Australia)
 - East Asia (Japan, South Korea, Taiwan)
 - Europe (UK)

- Education -

University

UNSW, Sydney NSW, Australia

Bachelor of Science, Computer Science (began as computer engineering).

- Experience -

ARM - Technical Director - (Cambridge, UK)

Client side technology tracking (Android, Chrome OS, Tizen, Fuchsia and other client related technologies), GPU drivers, cross-group influencing and strategy + advice, architecture focus investigation, vendor/supplier project and contract management, Linux kernel (DPU display driver maintenance, fixing, hardware bring-up), OSS GPU driver (kernel and userspace debugging and fixes), CPU profiling (perf, coresight), medium/large team building/creation + hiring. Initial GPU rust kernel driver work.

Samsung Electronics - Master Engineer (VP equivalent) - (South Korea HQ)

Mobile, Smart TVs, Wearables – OS, Applications, Graphics (LiMo, SLP, Tizen). Samsung Gear watches, NX Digital Cameras, All Samsung Smart TV models since ~2015, Samsung Z1, Z2, Z3, Z4 smartphones (100s of millions of devices). Worked with teams on the product side to support them, add features, optimize, guide teams to fulfill these tasks make releases, act as Graphics Architect for Tizen.

Independent consultant - (Sydney)

Mobile touchscreen UI toolkit development for Swisscom, Switzerland mobile R&D, mobile touchscreen toolkit tuning, expansion, development and consulting for Samsung Mobile Platform Labs, South Korea, Graphics architecture consulting for Venray technologies, Texas, USA for new Chip architecture.

Openmoko - Graphics Architect - (Tapei, Taiwan)

Lead all things graphics, from driver to UI toolkits and implement. Optimize, consult on new SoC's to be used, interface to international team spread across 5 continents. Worked with OpenEmbedded (Yocto) and built OS for smartphones.

Morgan Stanley Japan - UNIX Systems Architect - (Tokyo, Japan)

UNIX operations team, smooth running of the trading systems. Identifying problems and rectifying them, organizing training, network security, statistics monitoring, mentoring and training/education.

VA Linux Systems Japan - Engineer - (Tokyo, Japan)

OpenLDAP, custom Debian Linux distribution etc.

Fluffy Spider Technologies - Team Lead/Project Manager - (Sydney, Australia)

Project management + team lead (Embedded Linux OS consulting, Graphics/GUI)

VA Linux Systems - Senior Software Engineer - (Silicon Valley, California, USA)

Senior Software Engineer (Linux OS work, GUI/Graphics).

Red Hat Software - Software Engineer - (Raleigh, North Carolina, USA)

Linux OS, GNOME Desktop environment, GUI/Graphics

- Miscellaneous extra -

Lived on all continents except Antarctica & South America, Fluently speak English and German. French (rusty). Studied Latin. Also learned Japanese, Korean and some Portuguese.

Presented many presentations/speeches/papers at dozens of conferences around the world.