

# CV

Seoul  
South Korea

Tel +82 10 8574 4490  
@ [raster@rasterman.com](mailto:raster@rasterman.com)

## - Citizenships -

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- Australia
- Germany

## - Skills -

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### Technical & related skills

- GNU/Linux Open Source developer
- Lead developer & founder Enlightenment: <http://www.enlightenment.org> - X11 window manager & compositor + Wayland Compositor and application toolkit libraries - over 1.5 million lines of C code in GIT currently.
- Graphics & rendering code (low level routines/assembly, hardware interfacing, OpenGL, OpenGL-ES, familiar with ARM SoC's)
- Graphics layers from image processing & rendering up to application GUIs (including writing toolkits, user input etc.)
- Virtual keyboard development and design
- 3D
- Animation
- Audio mixing and effects
- GTK+
- X11 (X-Windows)
- Wayland display system/protocol
- Media codecs (MPEG1/2, Theora, etc.)
- Core application engine loops, IPC and queues
- Solaris and other older UNIXes
- Windows CE Development
- x86 (MMX, SSE etc.)
- ARM (Assembly)
- C (C++)
- Shell scripting (sh/bash)
- HTML (PHP, Javascript)
- Have used Java, Perl, Python, Modula-2, M68k assembly, Miranda
- Cluster/server/cloud management
- Operating system build infrastructure
- Network management
- Consumer device software development
- Architecture
- Library API development, design and implementation
- General UNIX administration
- Tizen OS (smartphones, smart watches, smart TVs, smart fridges, IoT...)

### “Soft skills”

- Team lead (varying sizes from ~5 to ~50)
- Project management and direction/planning
- Experience of building respect from peers
- Cross-cultural experience
- Both startups and large companies

### - Education -

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#### University:

UNSW, Sydney NSW, Australia

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

### - Experience -

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#### Samsung Electronics (Korea HQ) Master Engineer – ~7.5y

Mobile, TV, Wearables – OS, Applications, Graphics (LiMo, SLP, Tizen). Samsung Gear watches (Specifically Gear 2, Gear 2 Neo, Gear S, S3, S3 and firmware update for original Galaxy Gear all running Tizen), NX Cameras (NX300, N300M, NX30), All Samsung Smart TV models since 2015, Samsung Z1, Z2, Z3, Z4 smartphones. Worked with teams on the product side to support them, add features, optimize, guide team to fulfill these tasks, act as an official Graphics Architect for Tizen.

#### Independent consultant - ~2y

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, Mobile – ~1y (Tapei, Taiwan)

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

#### Morgan Stanley Japan Securities UNIX Systems Architect – ~1y (Tokyo, Japan)

Responsible for ensuring the UNIX operations team and application teams work together in the 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, NAP Team - ~2.5y (Tokyo, Japan)

Responsibilities included OpenLDAP code maintenance, patching, custom modification porting between versions and support/design. Created custom Debian Linux distribution image making tools to help build Install CD's for clients. Maintained packages, modifying installer, testing and debugging.

#### Fluffy Spider Technologies Team Lead/Project Manager - ~2y (Sydney, Australia)

Started as contractor, then project management, being team leader. Fluffy Spider Technologies (FST) worked on contract software development. Primary focus was embedded device OS & User Interface design, implementation and improvement. Projects completed: Linux based PDA OS environment (developing a custom window manager, task manager and application manager and launching system, modifying widget sets (GTK+) to customize the look and feel. Windows CE based PDA project (replacing the windows shell, porting software to Windows CE), Set-top box/PVR software stack, Responsibilities included project planning, work assignment, software design, project analysis and status tracking.

VA Linux Systems Senior Software Engineer – ~2y (Silicon Valley, California, USA)  
Senior Software Engineer in VA Linux Systems Software Engineering Department. Worked on assorted projects for open source, Cluster management software, server management software, Xfree86, Enlightenment, OpenGL, & more. Core member of Engineering during period of massive growth where the company (went from 50 to 600 employees).

Red Hat Software Software Engineer – ~1.5y (Raleigh, North Carolina, USA)  
Developer in charge of designing, implementing and supporting several programming projects (all GUI related) for the GNOME desktop environment. Track and fix bugs in other peoples programs and libraries, CORBA, Xlib, GTK+, and many other libraries, developed new apps and new library features, Administered a small network, handled maintenance and creation of web pages.

- Miscellaneous extra -

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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 conferences all around the world.