



Scott Tsai

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SUMMARY

Distributed systems, and system software developer. Open source contributor, Linux enthusiast. Worked in several Taiwanese consumer electronics companies, a big multinational corporation, and two Bay Area startups.

Looking for environments that encourage collaborative problem-solving and sharing of expertise.

EXPERIENCE

Core Team Member then Head of Chain Engineering, ThunderCore

Taipei City, Taiwan— 2018-2020

Joined the blockchain startup ThunderCore as a senior software developer. Personally implemented core storage and networking code spanning two generations of distributed consensus algorithms as part of the core team.

Was promoted to a managerial role in Aug 2019 and as Head of Chain Engineering was responsible for the stability and performance of the public blockchain and related services. Managed the five-member core team, four-member platform team, and four-member DevOps team with the help of competent team leads that reported to me.

ThunderCore mainnet has been live since Feb 2019 with no security incidents.


Contract Software Developer

EDUCATION

Soochow University — BA in Business Administration, 2010

SKILLS

Specialties: Distributed Systems, System Software, Embedded Networking, Linux Kernel, Device Drivers, Python, Blockchain, EVM, Smart Contracts, ISO 13818, DVB, Set-Top Box, TV.



Taipei City, Taiwan— 2015-2018

Implemented firmware programming and source level debugging support for an ARM Cortex-M microcontroller by modifying and integrating open source software packages.

Delivered debugger utility that could auto-detect the specific chip used and drive the open source OpenOCD utility through its "TCL RPC" interface.

Firmware Developer, jackpair.com

Taipei City, Taiwan— 2014-2015

JackPair is an accessory that plugs into the standard 3.5mm headphone jack of any mobile phone and encrypts voice calls to protect against wiretapping.

Responsible for hardware design review, hardware bring-up, firmware, and manufacturing test plan development.

Software Developer, AWIT Systems

Taipei City, Taiwan— 2010-2012

Mobile P2P Networking Stack, Zero configuration VPN.

Conference Organizer, FreedomHEC Taipei

Taipei City, Taiwan— June 2009

Helped organize and provide realtime English to Mandarin translation at the FreedomHEC Taipei 2009 conference:

<http://lwn.net/Articles/337314/>.

Set-Top-Box Developer, Motorola Taiwan

Taipei City, Taiwan— 2006-2008

Set-Top Box Device Drivers, DVR Engine with Time Shift Buffer, JVM Integration, Embedded Linux development support, Manufacturing Test software support.

Linux platform technical lead for an Open Cable/MHP set-top-box with two DVB-C and two DVB-T tuners at Motorola Taiwan Technology Center. Part time Mercurial, TWiki, Trac server administration.

Software Developer, Arima Corp.

Taipei City, Taiwan— 2006



IPMI Server monitoring software and BIOS update utilities under Linux. Contributed some patches to the 'flashrom' utility in coreboot (a.k.a. LinuxBIOS).

Firmware Developer, Tatung Corp.

Taipei City, Taiwan— 2003-2004

LCDTV firmware on the "count your stack use by the byte" 8051 microcontroller beloved by Taiwanese engineers. Contact window for the German customer in that ODM project. LCD analyzer and TV Signal Generator automation. Just-in-time, next to the assembly line firmware update support -- lots of fun.

Collaborated with the Microsoft eHOME department on an exploratory hardware project that combined a TV with a Set-Top Box. My manager was the (in)famous computer virus author CIH, learned a lot about the x86 MMU, protected mode and embedded Linux tricks from him.

