

Andy Lee · 李华乾

Software Engineer

Homepage huaqianlee.github.io Tel 199-xxxx-xxxx Email huaqianlee@gmail.com

Github github.com/huaqianlee

PROFILE

- More than 10 years of experience in Android/Linux/Embedded development, and 2 years of Manager and TPM experience.
- Familiar with C/C++, Java, Python, Shell, etc.; like to write scripts to improve work efficiency.
- Proficient in Linux kernel driver development and familiar with Java and Python programming.
- Familiar with embedded Linux C advanced application programming and kernel mechanisms.
- Familiar with Qualcomm platforms (MSM8909/8916, MSM8974, SDM450, etc.) and MTK platforms (MTK6570/6739, etc.).
- Experienced in development and maintenance of power, peripherals, performance, power consumption, and stability.
- Good English listening, speaking, reading and writing skills.

WORK EXPERIENCE

Thunder Software Technology Co., Ltd

Apr. 2018 – Present

IoT Camera Product Development

Took on the role of IoT Camera Manager and project TPM, completed part of the Camera development work, built the IoT Camera team, and delivered projects.

- Independently developed the all-in-one PoC of the in-vehicle (SM6125 + Ubuntu) Camera. Without official support, brought up the MAX9296+MAX96705 link by writing scripts that ran thousands of iterations, and secured Camera performance (frame sync, no frame drop) through reasonable CPU/GPU resource allocation — later turned into a sales solution.
- Promoted to head of IoT Camera in late 2020; set up the IoT Camera team (currently 9 members) responsible for pre-sales, development and after-sales of multimedia projects.
- Served as TPM on European/American projects, acting as the bridge for technical communication and pulling resources to solve and drive difficult, high-risk problems.
- On one European project with unbalanced resources and high difficulty, kept it on track using 70% of resources by breaking down tasks and focusing on the single most important thing each day; refactored Android Display HAL to make an SPI screen the Android default screen while staying compatible with the Qualcomm Camera architecture.

Android Phone Development

Responsible for BSP and System development and maintenance on Qualcomm platforms (MSM8909/SM6125/SDM660/SM8250, etc.), across Android and Linux (Yocto)—power management, Charger/Battery, USB, Performance, Thermal, Camera, System, Stability, Security, power consumption, etc.

- Delivered many customer-specific Charger/Battery/USB requirements, e.g. expanding one USB interface into three and turning it into a universal solution.

- Porting and bug maintenance across individual modules.
- Repeatedly helped resolve difficult and urgent issues (XBL, performance, stability, version management), keeping projects on schedule.
- Set up a local-network Gitbook server and initiated technical output from team members, forming effective technical precipitation.
- Produced multiple documents and tools to improve R&D efficiency, such as bring-up guides, module debugging guides, and automation tools for compilation and debugging.

EASTAEON Technology Co., Ltd

Nov. 2017 – Mar. 2018

Android Phone Development

Responsible for BSP development on MTK platforms (MTK6570/6739), including LCD/TP/Camera, Charger/Battery, barcode scanner, etc.

IDEA INTERNATIONAL DEVELOPMENT LIMITED

Oct. 2014 – Oct. 2017

Android Phone & Drone Development

Mobile development mainly covered drivers on Qualcomm platforms (MSM8916/8909, MSM8974) — power management, Charger/Battery, LCD/TP/Camera — solving problems at both responsibility and system level.

Drone development covered BSP and flight-control system development on the Qualcomm MSM8074 Linaro system, guaranteeing bring-up and correct operation of the ESC board, IMU, GPS, Magnetic sensors, etc.

Chengdu WXL Communication Technology Co., Ltd

Oct. 2011 – Aug. 2013

IoT Design & Development

Embedded development on Samsung and STM32 platforms, including schematic drawing, microcontroller programming, Samsung-platform Linux porting, and Linux application programming.

SHARING & HANDOUTS

- › 原来你是这样的 VCS!
- › How to develop and debug kernel?
- › Virtualization vs Containerization
- › Linux Device Driver: the Char Device Driver
- › How to prepare SDK for Yocto Linux/Ubuntu on Qualcomm?
- › MIPI CSI 接口定义与协议层介绍

SKILLS

Items marked ⁺ are the ones I use frequently.

C/C++ ⁺

Java ⁺

Shell ⁺

Python

HTML

Vim ⁺

Git ⁺

Android Studio ⁺

Docker

Ubuntu Linux ⁺

MySQL

EDUCATION

Sep. 2008 – Jul. 2012 Sichuan Technology and Business University Electronic Information Engineering Bachelor of Engineering

HONORS & AWARDS

- "Craftsman" Award, 2021
- National English Certificate Band 4 (CET-4)
- National Computer Rank Examination Level 2
- National Electronic Design Contest — 2nd Prize, Sichuan Province (2011.11)
- National Electronic Design Contest — 3rd Prize, National (2011.12)

THANKS

Thank you for taking the time to read my resume.