

Mattijs Korpershoek

Embedded linux/android software engineer

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Summary

I am a software developer passionate by technology since I am ten years old. I specialize in platform development since 2014 on Android related products with focus on smart-watches. I shine in learning and sharing technical knowledge. I was born in the Netherlands then got my Master Degree in France. Therefore I speak fluent English, French and Dutch.

Technical skills

Android

- Platform development
- Hardware bring-up
- New product enabling
- System debugging
- Knowledge from linux kernel to apps (java)

Languages

- C
- C++
- Python
- Java
- Bash

Other

- Linux kernel & userspace
- Production line support
- Git
- Gerrit
- Spacemacs

Key accomplishments

Audio software stack

I was the audio software stack owner on Android Wear based products. I have developed and debugged several places in the software stack including DSP firmware, Linux kernel drivers, Audio HALs and apps (java).

Manufacturing OS design/implementation

Traveled two weeks to China for pre-mass production, on-site troubleshooting and support. Developed Intel wearable Manufacturing OS, for hardware testing on the production line.

Platform bring-up

Traveled one week to the Bay Area for a hard-ware bring-up. Audio stack (with codec, speakers, four microphones) was up in two days and had three more days to make the camera work.

Work history

- Feb, 2017 **Linux/Android R&D for Intel New Device Group, CELAD**, San Francisco Bay Area, USA.
- Current
 - Software developer and integrator on Android Wear products with Intel inside
 - Active during entire product lifecycle from the early schematics to the end-user software releases.
- Sept, 2014 – **Linux/Android R&D for Intel New Device Group, CELAD**, Toulouse, France.
- Software developer and integrator on Android Wear products with Intel inside
- Jan, 2017
- Audio stack, low-power bluetooth playback, microphone for voice recognition
 - Developed a Manufacturing OS used for mass production and quality screening
- Apr, 2014 **Internship: Opensource audio HAL component, CELAD**, Toulouse, France.
- Aug, 2014
 - Open-sourced the Parameter-Framework, a major component of Intel's Android Audio HAL
 - Component is now part of Android AOSP (/external/parameter-framework/)
- May, 2013 **Internship: embedded and web development, 24green**, Vlaardingen, The Netherlands.
- Aug, 2013
 - Developed a web (REST) API which handles climate control functions in green-houses and apps to illustrate the API
 - Windows Embedded environment, with C# (for back-end) and HTML/CSS/javascript + java (for front-end)
- Apr, 2012 **Internship: linux kernel development, IRIT, UPS** Toulouse, France.
- Jul, 2012
 - Linux kernel development around performance counters and other hardware metrics
 - Real world testing on a French research grid computing network, Grid'5000

Education

- 2013 – **Paul Sabatier University, Toulouse, France**, CAMSI (Informatics, Systems and Machine Architecture Concepts), Master's degree.
- 2014
 - rank 1/18 (Valedictorian)
 - overall score > 85%