Michał Gapiński

FREELANCE SOFTWARE ENGINEER
OWNER / ENGINEER - TESLA ANDROID

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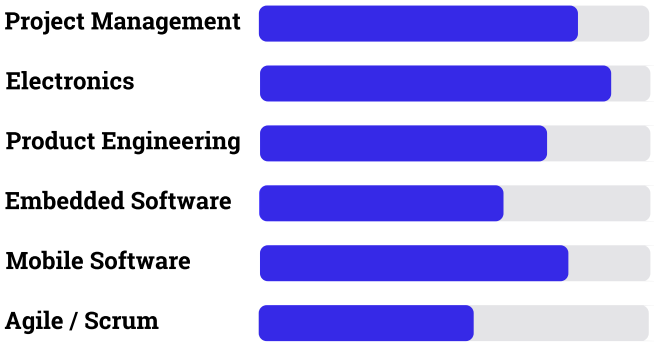
Skills



Languages

Polish **Fluent**
English **Fluent**

Conferences

FlutterCon 2023 **Berlin, Germany**
DevCon 2023 **Bukarest, Romania**
Bringing Android to Tesla vehicles with Flutter Web

Flutter and Friends 2024 **Stockholm, Sweden**
Embedded Flutter on Raspberry Pi 5
Simplification of daily eCommerce operations

Open Source

Android Firmware Development **Open Source**
2011 - Present
LG GT-540 Swift(Qualcomm MSM7227):
- Updated from Android 2.1 to Android 2.3 and 4.0
- Updated the Linux kernel from 2.6.29 to 2.6.35
Sony Xperia Neo(Qualcomm MSM8255)
- Roms based on Android 4.4 and 5.0
Samsung Wave(Samsung S5PC110)
- Full bring up of the Android platform; the phone initially shipped with Bada OS.
Raspberry Pi 4/5:
- Actively maintaining Android 12/13/14/15 fork (AOSP)
- Support for NVMe in U-Boot
- Support for A/B OTA
- Hardware accelerated Video Encode/Decode based on V4L2
- Support for Virtual Display with DRM (Headless)

XDA Developers featured most of my work, and I also held a "Recognised Developer" badge.

Education

Bachelor of Engineering **Computer Science**
West Pomeranian University of Technology, Szczecin
Poland
2016 - 2020

Thesis topic: "Design and implementation of the air purifier unit compatible with Apple HomeKit platform."

The project includes circuit design, custom RTOS based firmware with the Apple HomeKit platform, iOS app and the cloud solution built on top for .Net Core and Azure.

Professional Scrum Master I
2019 Scrum.org

Experience

Owner / Software Engineer **Tesla Android**
December 2021 - Present
Introduced Android with CarPlay and Android Auto to Tesla vehicles. Based on a custom AOSP fork running on a Raspberry Pi. Fully functional when driving, thanks to Flutter's rendering engine and CanvasKit.
Featured by The Verge, MacRumors, TechCrunch, AppleInsider, Jalopnik, Redmondpie, iMore, and others.
Tesla Android Hardware powered by the Raspberry Pi Compute Module 4 is available on the market for over two years.

Freelance Software Engineer **Sole proprietorship**
2016 - Present
I've been shipping mobile apps for Android and iOS for years. I also en|gage in AOSP-based projects as a consultant.
Here's a brief overview
:- OpenAir: Flutter app for an indoor air monitoring device.
- iMagazine, MyApple Magazyn: Android/iOSapps for magazines with a custom PDF reader
- BlueBolt: Bluetooth access control system
- Lenovo + Play (P4) - support for national roaming in the Android framework layer (not supported in the AOSP / CodeAurora base)

CEO / Engineer **Pineboards**
September 2023 - March 2025
Co-founded the company. Pioneered PCIe based expansion in the Raspberry Pi ecosystem.

Responsibilies:
- Overseeing daily operations, team management, hiring, and financials.
- Built a global distribution network from scratch, partnering with 15+ resellers (e.g. Botland, TME, The Pi Hut, DigiKey).
- Led hardware development; launched ~20 products in a year. Worked closely with designers, suppliers (EU & Asia), and manufacturers in Poland and China.
- Collaborated with Raspberry Pi as a Compute Module 5 launch partner.
- Represented the brand at trade shows like Embedded World and Maker Faires across the EU and UK.
- Built and managed our Shopify eCommerce platform, delivering 50,000+ products in a year.
- Led marketing outreach; secured features from The Verge, Linus Tech Tips, Tom's Hardware, and more.

At Pineboards I had the ability to grow my project management and business skills and combine them with my passion for engineering.

Senior Software Engineer **HappyByte GmbH**
August 2022 - September 2023
Lead developer of two projects:

- TeamLounge: Video conferencing app for hybrid workplaces aimed at improving everyday communication between employees (Flutter, Firebase, WebRTC)
- Camping.info: App for browsing and booking campsites across Europe(Flutter, MapBox)

Software Engineer **Bank Pekao SA**
July 2019 - August 2022
I have worked on projects with Swift 5 and UIKit or Flutter. In addition, I helped introduce new technologies to the organization as a member of the R&D department.

Software Engineer **Idee Sp. z o.o.**
October 2015 - July 2019
Responsible for developing, delivering, and supporting mobile applications for iOS(Obj-C/Swift) and Android(Java)
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Experience with providing tailor-made software customizations for Android devices for both carriers and enterprises(including frameworks, kernels, and bootloaders.
Experienced with Qualcomm and Mediatek platforms.