Curriculum Vitae

Personal Information

Name	Funk Maximilian
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Birthday	September 3, 1992 in Bad Aibling, Germany

Personal Profile

Experienced Software Engineer with a proven track record in Android app development. Passionate about creating innovative mobile solutions and eager to contribute expertise in Kotlin, Android Studio, and a wide range of development tools to your team

Work Experience

Since 01/2022 — **Android developer at Logitech**

- Developing a native Android app for a desk and room booking solution utilizing Kotlin for a user-friendly and innovative experience
- Taking ownership of the entire app development life cycle, ensuring the successful market release of our Android app through strategic planning, coding, and quality control
- Using various libraries and tech stacks like Flows, Coroutines, Room, Retrofit, Web View, MVVM, Material Design, OkHttp, RESTful API, Firebase

09/2021 – 12/2021 — **Self-Employed Android Developer**

- Independently designed and developed a comprehensive Android application to streamline internal logistics processes and effectively visualize employee working hours.
- Successfully published the app on the Google Play Store, demonstrating its continued utilization by approximately 80 users with zero issues.
- Utilized a diverse tech stack, including SQL, PHP, HTML, OkHttp, MySQL, Kotlin, and Android Studio, to deliver a robust and user-friendly mobile solution

03/2021 - 01/2022 — **Software engineer for ALTEN SVERIGE AB**

- Working at BorgWarner Sweden AB in Landskrona
- Developing new application and control software for next generation all-wheel drive system using Matlab/Simulink and Stateflow
- Unit testing using MIL and SIL with TPT
- Vehicle data analysis and vehicle model parameter tuning

05/2019 – 02/2021   **Software engineer for Neumüller Ingenieurbüro GmbH**

- Working at Vitesco Technologies GmbH former Continental Automotive GmbH
- Development of customer software for the ComStack for engine and drivetrain ecu's
- Creating relevant specifications and code reviews
- Testing, analysing and documenting the ecu communication (CAN, Flexray and LIN) of the integrated software on the testbench
- Developing tools for software generation in Python

09/2017 – 04/2019   **Development Engineer at Bertrandt Ingenieurbüro GmbH**

- Function development for ADAS with ADTF in C/C++
- Creating first concepts and use cases for an autonomous driving project
- Inverter software defect ticket analysis on the testbench with CANape and Inca

Internships

03/2017 - 08/2017   **Working student at Bertrandt Ingenieurbüro GmbH**

- Function development for ADAS with ADTF in C/C++
- Creating a graphical interface with QT for adapting relevant parameters for ADAS while driving

10/2016 - 02/2017   **Bachelor Thesis at Bertrandt Ingenieurbüro GmbH**

- Frontend development of a dynamic signal manager for a Car2Backend-Gateway via MQTT
- Creating a Frontend with HTML, PHP, CSS and JavaScript
- Working on the Backend with MQTT and a MySQL database

04/2016 - 09/2016   **Working student at Continental Automotive GmbH**

- Creating and developing pcb's for measurement systems for engine ecu's

10/2015 – 02/2016   **Internship semester at Innofas GmbH**

- Working on a project for wireless charging for electrical cars
- Implementing new measurement systems to the test environment using CANoe via TCP/IP
- Creating automated hardware tests and analysing them

06/2014 – 06/2015   **Working student at Continental Automotive GmbH**

- Hardware development for engine ecu's
- Programming an Arduino for simulating different types of injections on the test bench

Education

10/2012 – 08/2017	**Bachelor of Engineering in Electrical Engineering**
	OTH Regensburg, Technical University of Applied Science
	Regensburg, Germany
	Major: Telecommunications
	Thesis: Frontend development of a dynamic signal manager for a Car2Backend-Gateway via MQTT"

Other Skills

Programming Languages:	Kotlin, C, C++, Python, PHP, HTML, CSS, JavaScript, TypeScript, SQL, CAPL
Android Development:	Android Studio, MVVM, Jetpack (Room, LiveData), Retrofit, Flows, Coroutines, Hilt & Dagger, Gradle, Android SDK, Firebase Cloud Messaging, Material Design, OkHttp, Glide, Web View
Version Control:	Git, Github, SVN
Other Tools:	Figma, Jira, PTC Integrity, Polarion, Eclipse, Visual Studio, Matlab, Simulink, Stateflow, CANoe, CANape, CANalyzer, Eagle, ADTF, Qt, TPT, Wireshark, Inca
Languages:	German, native
	Englisch, fluent
	Swedish, basics

Social Endeavours

10/2012 – 08/2015	**Working at the Formula Student Team of the OTH Regensburg**

- Managing the Electronics team of 10 to 20 people
- Designing and creating a wiring harness
- Developing self-made ecu's with self-written software in C
- Participating on different events and presenting our concept to judges

Interests

- Started native Android App development by programming a betting game App using Kotlin in combination with Firestore cloud functions written in TypeScript for real-time data updates from a sports news API and user engagement. Successfully launched the app on the Google Play Store in a test environment among friends and family, gaining valuable user feedback for ongoing improvements.
- I do CrossFit, running and love to do long distance hiking

Malmö, 23.02.2024

Funk Maximilian