CURRICULUM VITAE

■ Personal Information

Name:	Richard Knoll
Date of Birth:	February 13th, 1991
Location:	London, UK
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E-Mail:	richard@rknoll.at
Nationality:	Austrian

■ Work

2018-10 – now Google UK – Software Engineer
Working on Google Chrome to advance the Web and adding helpful features for billions of users globally. Codebase is mainly in C++ with OS specific parts in other languages like Java or ObjectiveC.

2017-09 – 2018-10 BJSS Ltd London – Software Developer
Full stack engineer at Lloyds Banking Group
Responsibilities include: CI/CD pipeline in Jenkins/Kubernetes, JavaScript Frontend & Backend development, coaching other teams.

2017-01 – 2017-07 IntraBase GmbH – Co-Founder
I've built multiple MVPs in the FinTech sector, using technologies like NodeJS, Spring Boot, ASP.NET and Elasticsearch

2016-03 – now Mantigma GmbH – Co-Founder
„predictR" – private customers financial forecasting
I am the lead developer for the backend system which connects to internal APIs of a bank. Mainly written in Kotlin, React JS and R.

2015-09 – 2016-10 25th-Floor GmbH Vienna – Software Developer
I was part of a new business unit specializing in rapid product development. We turned ideas of customers into working prototypes, using Java, PHP, PostgreSQL, React and AngularJS.

2015-02 – 2015-08 LineMetrics GmbH – FW Developer
I was working on a low power wireless sensor using Contiki as the OS, a custom bootloader for AVR and OTA upgrade functionalities.

2014-07 – 2015-03 Trotec Laser GmbH – HW / SW / FW Developer
Realtime Laser Control with FPGA
I have lead a team of 6 to replace existing microcontrollers and improve the performance and accuracy of laser cutters by designing an FPGA with VHDL.

2013-02 – 2013-08 OttoBock Healthcare Products GmbH –Firmware Developer
Internship and BSc. project, integrated Bluetooth Low Energy into an embedded system and connect to Android, iOS and Windows.

2011-12 – 2015-08 Catalysts GmbH Linz – Software Developer
CI/CD Tools, OpenWRT, embedded systems, designed and implemented the architecture for a web application (Spring Boot, Angular)

■ Education

2013-10 – 2015-08 University of applied sciences, Upper Austria
Embedded Systems Design (MSc.) - *cancelled*

2012-09 – 2013-02 Erasmus exchange, FH Bern – Switzerland

2011-03 – 2013-08 University of applied sciences, Upper Austria
Hardware - Software – Design (BSc.)

■ Additional courses

2012	Online: „Programming a Robotic Car" UdaCity CS373
2011	Online: „Intro to Artificial Intelligence" Stanford CS221
2009	Summer School Mathematics „Game Theory"

■ Competitions

Figo Bankathon	Rank 1 / 300 *(2016)*
Deutsche Bank API/Open	Rank 2 / 70 *(2016)*
Zurich Insurhack	Rank 4 / 130 *(2016)*
Catalysts Coding Contest	Rank 1 / 177 *(2015)* Rank 1 / 376 *(2013)*
ICFP Contest *(Lightning Round)*	Rank 24 / 315 *(2015)*

■ Projects

Master Project	*„MIEC Compiler* *Compiler written from scratch for custom language, generating machine code for custom CPU"*
Bachelor Project	*„Democratic JukeBox* *User Defined Playlists for venues built with modern web technologies"*
Bachelor Project	*„VisionCar 2* *Control RC-Cars over Internet with Android Devices"*
Bachelor Thesis	*„Bluetooth – Low Energy* *Comparisons and Field studies, energy efficient data transfer between smartphones and healthcare appliances"*
College-Diploma	*„Measuring and evaluation program for an impulse turbine model test rig in the hydrolaboratory of the technical college in St. Pölten / Austria"*

■ Other Skills

Language:	German, Native Speaker Hungarian fluently – second native language English fluently, B2 (Cambridge First Certificate)
Computer / IT:	Image- Video Processing, 3D-Printing, Build Automation / CI, µController, Hardware Design (VHDL, SystemVerilog, SystemC) Programming Languages: asm, C, C++, C#, VB, JAVA, Kotlin, Python, Ruby, R, Swift, JS, …
CAD / PLC:	3D CAD (CATIA V5) CNC-Programming, PLC Programming (Siemens, B&R)