

# Dipl. Inf. Moritz Warning

## Curriculum vitae

### PROFESSIONAL EXPERIENCE

2018 – PRESENT

Freelancer, Berlin

#### *Software Developer*

Various projects. E.g. Captive Portal development for wireless routers based on OpenWrt written in C. Configuration, development and documentation of mesh network software on OpenWrt, web interface plugins in Lua.

2018 & 2019

Freifunk, Berlin

#### *GSoC Mentor*

Google Summer of Code mentor for the Meshenger audio/video app development for communication in networks independent of the Internet.

APRIL 2015 – SEPTEMBER 2017

meteocontrol GmbH, Augsburg

#### *Software Developer*

Development of C++/Qt based software on embedded ARM devices to record solar field output and state. Driver development for new devices, Linux system updates, build system and package management. Planning and coordination of development aspects.

FREIFUNK 2011 – PRESENT

Freifunk Bielefeld, Bielefeld

#### *Senior Software Developer*

Development of a wireless router firmware based on OpenWrt to create a decentralized wireless mesh network to offer free and open Internet access across town.

2012

Diploma Thesis, Bielefeld University

#### *Student*

3D Model reconstruction from point clouds using the Microsoft Kinect and implementation of relevant data structures.

2008

Department of Philosophy, Bielefeld University

#### *System Administrator*

System Administrator for the Windows computer pool of the department. Hardware and Software setup of desktop PCs and problem resolution.

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### EDUCATION

2012 **Informatics for the Natural Sciences at Bielefeld University**

UNIVERSITY DIPLOMA

Physics minor with specialization in Artificial Intelligence

### PUBLIC PROJECTS

2011-PRESENT **Freifunk Bielefeld**

Wireless router firmware development

2017-PRESENT **Mesh Networks**

Mesh routing algorithm research

2018&2019 **Google Summer of Code**

Mentor for Freifunk/OpenWrt

2014-PRESENT **NoDogSplash**

Captive portal development

### COMMUNICATION SKILLS

GERMAN Native speaker

ENGLISH Oral: very good – Written: good

### SOFTWARE SKILLS

GOOD LEVEL C, C++, Qt, Python, Rust, shell, HTML, CSS, git, gcc, GTK+, Linux, OpenWrt, Yocto

INTERMEDIATE Java, Lua, FreeBSD, Modbus, SPI, Docker, JavaScript, Jenkins

BASIC LEVEL Windows, FreeBSD, SQL