



Simon Zimmermann

Curriculum Vitae

PERSONAL DETAILS

<i>Birth</i>	June 5, 1993
<i>Location</i>	Düsseldorf, Germany
<i>Mail</i>	mail@simonzimmermann.com
<i>Github</i>	github.com/SimonZimmer

EDUCATION

MSc. Media Informatics

2018-2020

University Of Applied Sciences Düsseldorf

Thesis title: 'Scalable Modelling of Room Acoustic Characteristics for AR-devices on the Basis of Visual Information Using Deep Learning' - honors degree

MSc. Music Informatics

2018

University Of Music Karlsruhe

Guest Semester

BEng. Media Engineering

2012-2017

University Of Applied Sciences Düsseldorf

Thesis title: 'A concept for implementing room acoustic material properties in the context of a 3D-audio engine'

WORK EXPERIENCE

C++ Software Engineer

2020-present

Dear Reality GmbH, Full-time

Full stack development of multiple realtime audio applications. Process follows the guidelines of the test-driven development philosophy, modern C++ and scrum.

Researcher / QA Engineer (working student)

2017-2020

Dear Reality GmbH, Part-time

Research and development of audio-DSP related prototypes, quality assurance and test automation development.

Room-Acoustics Engineer (working student)

2016-2017

ISRW-Klapdor Part-time

Room acoustic simulation and measurement.

PROJECTS

dearVR Exoverb

2022

Backend Developer

Contributed to the Development of the DAW-plugin "Exoverb". The plugin uses synthesized Reverb Impulse Responses and additional processing to generate a convincing reverb effect

Team Split Facilitation

2022

Backend Developer, DevOps Engineer

Contributed to transitioning from a one-team solution to a frontend/backend split into two teams using conan, Microsoft Azure, pure-data and C as the extended technology stack

dearVR MIX/MONITOR

2021

Full Stack Developer

Contributed to the Development of the two DAW-plugins "dearVR MIX" and "dearVR MONITOR". The plugins utilize Headphone Calibration, Room Simulation and Binauralization to virtualize a professional studio environment using only headphones. Plugins are also capable of simulating multichannel-audio playback

PUBLICATION

Co-Author

2021

Conference Paper, Immersive and 3D Audio: from Architecture to Automotive (I3DA): "Machine Learning-Based Room Classification for Selecting Binaural Room Impulse Responses in Augmented Reality Applications"

AWARDS

Composer, Producer

2020

Best contribution "!"content" in the category Acoustic Stories, "Sound Cinema Düsseldorf"

Composer, Producer

2020

Audience award for contribution "!"content", "Sound Cinema Düsseldorf"

SKILLS

Languages

German (mother tongue)
English (fluent)

Technologies

C++17
CMake
conan
googletest/googlemock
google-benchmark
C99
Python
Pure Data (Pd)
git
nvim/vim
docker
conan
Azure DevOps
Jenkins
POSIX
MATLAB
L^AT_EX
JUCE
pybind11
flask
wagtail

Other

Music Production
Modular Synthesizer
Esoteric Programming Languages (Orca, TidalCycles)