

Niklas Reppel

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Work Experience & Internships

- since 2017 **Eurecat, Barcelona**, Research & Development
3D & binaural audio software, plugin & DSP library development
- 2015 – 2016 **University of Music, Karlsruhe**, Graduate Teaching Assistant
Autonomous planning & implementation of programming courses (C++)
- 2015 – 2016 **Hochschule f. Technik & Wirtschaft, Karlsruhe**, Teaching Assistant
Exercise groups for C++, digital sound processing, embedded systems
- 2014 – 2015 **VBL AdöR, Karlsruhe**, Side Job
Data management
- 2010 – 2014 **Genius Bytes GmbH, Bochum**, Software Developer
Server & client applications for print output management, print accounting, multi-functional printers
- 2006 – 2009 **Völker GmbH, Witten**, Side Job
Warehouse logistics
- 2004,2005 **14. und 15. Internationales Video Festival, Bochum**, Internship
Program selection, logistics, organisation, hosting
- 2002 – 2004 **Divasoft, Dortmund**, Internship
Music- & media production
- 2003 – 2004 **Falken Bildungs- und Freizeitwerk e.V., Witten**, Civilian Services
Supervising kids & adolescents in youth club, excursions, events

Education

- 2014 – 2016 **University of Music, Karlsruhe**, Music Informatics
Master of Arts (1.0*)
- 2006 – 2013 **Technische Universität, Dortmund**, Computer Science
Bachelor of Science (2.8)
- 2004 – 2006 **Technische Universität, Dortmund**, Applied Literary and Cultural Studies
Minor subjects: music, computer science

Languages

- German (mother tongue)
- Castilian Spanish (conversational)
- Italian (good knowledge)
- English (business fluent)
- French (good knowledge)
- Japanese (basic knowledge)

Software Development Qualifications

- General** Digital sound processing, domain specific languages, embedded systems, audio pattern recognition (bachelor thesis), amplifier modeling (master thesis), 3D & binaural audio processing
- Languages** C/C++, Rust, Python, Common Lisp, PureData, JavaScript, SuperCollider, Java
- Frameworks & APIs** JUCE, Boost, RtAudio, NumPy, Keras
- Tools** Git, Cargo, Eclipse, XCode, Cmake, Jupyter Notebooks
- OS** Linux (div. distr.), Windows, Android, iOS
- Misc** Physical computing, arduino, sensors, Raspberry Pi, live coding

Miscellaneous Qualification

Music

- Production** Over 15 years experience in home- and studio recording, miking, recordings w/ several bands, studio tools (Logic, Ardour, ProTools, PureData)
- Practical** Proficient on bass guitar, drums and guitar, stage- and touring experience, music for films & theater, live coding & laptopism
- Misc** Masterclasses with Denis Smalley, David Thomas Lee, Jörg Lindenmayer
- form. Bands** ENKUD ([link](#)), Brainflow Management ([link](#)), Compania Bataclan ([link](#))

Personal Interests

- Road Cycling
- Neuropsychology
- Algorithmic Composition