

# Lukas Tenbrink

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Munich • lukas.tenbrink@gmail.com • <https://tenbrink.me/portfolio>

## Academic

<b>Klinikum der Universität München / Karlsruhe Institute of Technology</b> Doctoral Student Thesis: Robust automatic determination of T-Wave boundaries in ECGs.	Munich 2022 +
<b>Technical University of Munich</b> MSc. Informatics • Ø 2.3 Thesis: Investigating dense body surface electrode data for non-invasive detection of intracardiac arrhythmia drivers. BSc. Informatics • Ø 2.5 Thesis: Online Prediction of Motion Patterns using Hierarchical Temporal Memory. Noteworthy: Research Assistant (Backend) for the Chair of Education, Tutor for the International Office.	Munich 2018 - 2021  2013 - 2018
<b>Gymnasium Ohmoor</b> General University Entrance Qualification • Ø 2.1 Noteworthy: Head / Tutor of the Programming Club, Lead Designer for the School Newspaper.	Hamburg 2005 - 2013

## Publications

<b>IEEE International Conference on Cyborg and Bionic Systems (CBS)</b> Motion Prediction of Virtual Patterns, Human Hand Motions, and a simplified Hand Manipulation Task with Hierarchical Temporal Memory.	2019
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## Experience in Software Engineering, Data Science

<b>Ablacon GmbH</b> Software Engineer + Student Software Engineer Scientific Analysis of ECG; Cloud Architecture for distributed computing; Fullstack- and App- development in Python.	Munich May 2021 - March 2022 Jan. 2019 - May 2021
<b>Xyrality GmbH</b> Student Software Engineer	Hamburg June 2013 - Sept. 2013

## Open Source • [github.com/Ivorforce](https://github.com/Ivorforce)

• Virtual Translucent LED Screen Technology ('LED Fan')	2020 - 2020
• Music-Management + Analysis - Software	2019 +
• Filehosting Client	2013 - 2015
• Various Modifications for the game Minecraft • 100.000.000 Downloads	2011 - 2020

## Additional Qualifications

- **Data Science** Python, NumPy, Tensorflow, Ray • **Server + Backend** Docker, AWS, PHP, SQL • **App + Frontend** Swift, Java, C#, OpenGL, GLSL, HTML, CSS, GDScript • **Low Level** Objective-C, C++, C, Rust
- **Other:** CAD, PCB Designer, Image-, Audio-, Video Editing, Office Software
- **Languages:** German (Mother Tongue), English (Business Fluent)