Frederik Berg

Personal Data

Name	Frederik Julius Berg
Website	bergrunde.net

Academic Career

08/2022 – 09/2023	**[Quitted] PhD Computer Science**, *Chair for Embedded Software at RWTH Aachen*, Research: functional safety of medical embedded devices (one first-author publication), Teaching: managing and supervising seminar students and giving tutorials.
04/2022 – 10/2022	**[One Semester] Computer Science Fundamentals**, *RWTH Aachen*, Gathering preliminary computer science knowledge like data and algorithmic foundations.
04/2019 – 01/2022	**Master Automation Engineering**, *RWTH Aachen*, Specializing on embedded programming, Master thesis: "Design of a Software Architecture for a Blood Pump Control and Selection of a Control Strategy for the Blood Pressure" (Grade: 1.0), Final grade: 1.4.
07/2017 – 12/2017	**Erasmus Semester Abroad**, *Norwegian University of Science and Technology Trondheim*, Lectures about system development and programming.
10/2014 – 12/2018	**Bachelor Mechanical Engineering**, *Leibniz University Hanover*, Bachelor thesis: "Programming of a smartphone's camera for detection and demodulation of light signals in optical wireless channels" (Grade: 1.0), Final grade: 2.0.
2014	**Abitur**, *Leibnizschule Hannover*, Final grade: 1.2.

Work / Other Experience

08/2023	**Maschine Learning 4 Good (ML4Good)**, *Germany*, AI safety and alignment camp, Personal project: Compute governance.
03/2023 - today	**Effective Altruism Aachen local group co-organizer**, *Germany*.
10/2020 – 08/2022	**Software Development for Measurement Equipment (Student Job)**, *Chair for Embedded Software at RWTH Aachen*, Design and implementation of software to control measurement equipment like a blood pump control.
10/2018 – 03/2019	**Android App Development (Student Job)**, *Institut für Transport- und Automatisierungstechnik Hannover*, Programming a camera module and processing signals.
05/2017 – 07/2017	**Software Development (Internship)**, *KraussMaffei Berstorff GmbH Hannover*, Programming of the control system BPC Touch.

Languages

German	native
English	fluent