

Curriculum Vitae

Name: Andreas Curdin Biri
Address: 63 Inman Street, Cambridge MA-02139, USA
Mobile: +1 (617) 256-1482
Email: abiri@bluewin.ch
Date of Birth: 1994-03-01
Nationality: Swiss
Website: abiri.github.io



Background & education

- 01/2019 – 07/2023 **ETH Zürich**, Department “Information Technology & Electrical Engineering”
Doctoral studies, advised by Prof. Dr. Lothar Thiele
Publications: - 4 first-author publications
 - 4 conference presentations
 - 10 additional papers with collaborators
- Doctoral thesis: “*Seeking Autonomy for Low-Power Wireless Networks*”
- 02/2017 – 12/2018 **ETH Zürich**, Department “Information Technology & Electrical Engineering”
Master of Science (MSc) “Information Technology & Electrical Engineering”
Specializations: - Wireless communication
 - Computer networks
 - Network security
- Semester thesis: “*Localizing mobile nodes in a relative coordinate system*”
- Semester thesis: “*Unleashing the power of real-time Internet of Things*”
- Master thesis: “*TotTernary: A wearable platform for social interaction tracking*”
(conducted at the **University of California in Berkeley**, USA)
Average mark 5.90 / 6 (all theses graded with maximal grade 6)
- 10/2015 – 12/2016 **Swiss Armed Forces**, training to and serving as infantry platoon leader
- 09/2012 – 09/2015 **ETH Zürich**, Department “Information Technology & Electrical Engineering”
Bachelor of Science (BSc) “Information Technology & Electrical Engineering”
Average mark 5.41 / 6 (first year exams passed with mark 5.58 / 6)
- 07/2008 – 08/2012 **Kantonsschule Zug**, Zug
Swiss Federal Matura
Specialization: - Physics & Applied Mathematics
 - Immersion class with four subjects in English
Best male graduate in the Canton with mark 5.73 / 6
- 08/2006 – 07/2008 **Kantonsschule Hohe Promenade**, Zurich

Achievements

- “Best artifact” Award at IPSN ’23 for the presented paper on Hydra
- 3rd place at the *Cyber 9/12 Student Challenge* 2018 as team lead out of 20 international teams
- One of the best 25 entries to the “Swiss Startup Awards” for startup “Banabird”
- Member of the “Swiss Study Foundation”, which mentors distinguished Swiss students
- Award “Very good” of “Schweizer Jugend forscht” for the Matura project
- Röthlisberger-Prize 3rd place for the Matura project

Work experiences

08/2023 – 06/2025 **Sonova AG**, Stäfa, as an *Embedded Software Engineer*

Specifying, coordinating, and developing embedded control applications as part of the wireless subsystem of an industry-leading hearing aid

- Bluetooth and proprietary protocol configuration and integration
- OO programming in modern C++ and C#

08/2015 – 10/2015 **Leica Geosystems**, Heerbrugg, as a *Software Engineer*

Design, evaluation and implementation of a two-way communication link over Long Range Bluetooth in-between laser measurement stations

- Embedded systems programming on two proprietary platforms
- Programming in C

12/2013 – 07/2015 **Banabird (Startup)**, Zürich, as *Chief Operating Officer (COO)*

Development of an online tool for writing and reading interactive stories with individual paths for personalized experiences with fellow students from ETH Zurich and University of Zurich

- Operational planning and internal coordination & management
- Designing and implementing the website, especially the entire backend using REST and Hibernate for the database access
- Programming of an Android app for mobile interaction in Java

08/2012 – 09/2012 **IBM Research Laboratory**, Rüschlikon, as a *Research Assistant*

High-frequency S-parameter measurements on a multi-channel printed circuit board designed by IBM and converting the measurements into time domain using *the Cadence/Spectre* circuit simulator

09/2010 – 10/2010 **Siemens Building Technologies**, Zug, as a *Software Engineer*

Integration of publicly available weather information and predictions over radio into a building information systems for further processing

- Embedded systems programming on the *DESIGO Tx-Open* Platform
- Programming in C++ and C# including designing the GUI

07/2010 – 08/2010 **Super Computing Systems (SCS)**, Zürich, as an *Intern*