



# Nicolas Y.C. Triebold

Engineer | Creator | Designer | Developer | Traveler

Born: 1997-12-22 | Nationality: Swiss, French

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## Education

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### Master of Science in Mechanical Engineering

Swiss Federal Institute of Technology Zurich (ETH Zurich), D-MAVT (Mechanical and Process Engineering)

Zurich, Switzerland | February 2022 to March 2025 Distinctive grade average: 5.75

Focus on biomedical engineering, railway and aviation, rocket engineering, data science, industrial design, mechatronics, robotics and engineering education.

### Visiting Scholar & Master's Thesis Research

Tufts University, Center for Engineering Education and Outreach (CEEEO)

Boston, MA, USA | September 2024 to March 2025 Distinctive grade: 5.75

Conducted thesis on networking systems for educational robotics in collaboration with the CEEEO. Focus on interdisciplinary hardware/software platform development.

### Exchange Semester in Engineering and Design

Technical University of Denmark (DTU)

Copenhagen, Denmark | January 2023 to July 2023

Participated in courses on biomedical systems, user-centered design, and innovation as part of ETH MSc curriculum.

### Bachelor of Science in Mechanical Engineering

Swiss Federal Institute of Technology Zurich (ETH Zurich), D-MAVT (Mechanical and Process Engineering)

Zurich, Switzerland | September 2017 to February 2022

Biomedical engineering major

### Matura in Latin

Freies Gymnasium Zürich (FGZ)

Zurich, Switzerland | August 2009 to July 2016

## Professional Experience

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### Secretary & Board Member

MIT Visiting Student Association (VISTA MIT)

Cambridge, MA, USA | September 2024 to March 2025

Managed board meetings, developed SOPs, and handled administrative tasks

### Intern & Super Duper Play Wizard

the LEGO Group, Creative Play Lab (CPL), Play Discovery Digital

Billund, Denmark | August 2023 to February 2024

Developed novel interactive play experiences using digital tools

### Consultant

ETH Zurich, Product Development Group Zurich (pdz)

Zurich, Switzerland | July 2023 to August 2023

Consulting and validation for innovation project 23

### Research Assistant

University of Zurich (UZH), Chair of Technology and Innovation Management

Zurich, Switzerland | October 2022 to December 2023

QA testing of online tools, administrative and research support

### Team Coach

Academic Space Initiative Switzerland (ARIS), Project LEA (Liquid Engine ARIS)

Swiss Innovation Park Zurich, Dübendorf, Switzerland | February 2022 to February 2023

Coached team and sub-teams during the complete development and project cycle

### Teaching & 3D Printing Assistant

ETH Zurich, Engineering Design and Computing Laboratory (EDAC)

Zurich, Switzerland | June 2022 to December 2022

Helped develop lectures and taught course Engineering Design and Material Selection (EDMS)

### Teaching Assistant

ETH Zurich, Student Services

Zurich, Switzerland | June 2022 to August 2022

Moderated and lead student groups as part of the Pre-Study events

### Business Audit Committee Member

National Students' Union of Switzerland (VSS-UNES-USU)

Bern, Switzerland | February 2022 to present

Serving as adjudicator for any question regarding the interpretation of bylaws, complete financial and compliance audits and support the day-to-day business of the association

### Coach & Production Co-Lead

ETH Zurich, Product Development Group Zurich (pdz)

Zurich, Switzerland | February 2022 to July 2022

Coached student groups as part of course Innovation Project 22 and lead laser-cutting production team

### Makerspace Manager

ETH Zurich, Student Project House (SPH)

Zurich, Switzerland | October 2021 to January 2023

Lead introduction courses for machine usage and ensured safety standards

### Business Audit Committee Member

Students' Union of ETH Zurich (VSETH)

Zurich, Switzerland | September 2020 to February 2023

Served as adjudicator for any question regarding the interpretation of bylaws, supported the sub-associations in compliance and constitution matters and ensured compliant everyday operations of the association

### Coach & Production Assistant

ETH Zurich, Product Development Group Zurich (pdz)

Zurich, Switzerland | February 2021 to June 2021

Coached student groups as part of course Innovation Project 21, lead laser-cutting production team

### Teaching Assistant

ETH Zurich, Engineering Design and Computing Laboratory (EDAC)

Zurich, Switzerland | September 2020 to December 2021

Taught course CAD & TZ

### Intern

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Baden, Switzerland | January 2018 to February 2018

Mastered to use various industrial machines (Mill, lathe, CNC, etc.) and completed production processes

## Milestones, Achievements and Awards

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**Master's Thesis:** Networking for Educational Robotics: Design and Development of the Smart System Platform

Tufts University, Center for Engineering Education and Outreach (CEEEO) & ETH Zurich, Global Health Engineering (GHE)

Boston, MA, USA | March 2025 Distinctive grade: 5.75

### Internship Abroad

the LEGO Group, Creative Play Lab (CPL), Play Discovery Digital

Billund, Denmark | February 2024

### Exchange Semester

Technical University of Denmark (DTU)

Copenhagen, Denmark | July 2023

**Semester Project:** Impact of Limited Field of View on Human Behaviour in Virtual Reality

ETH Zurich, Institute of Machine Tools and Manufacturing (IWF), Innovation Center Virtual Reality (ICVR)

January 2023

**Bachelor's Thesis:** Comparison of Cell-free Hemoglobin Measurements by Means of Microscale Acoustofluidics and Centrifugation

ETH Zurich, Product Development Group Zurich (pdz)

February 2022 Distinctive grade: 5.75

**Blood Regulator Award**

ETH Zurich

June 2021 1st Place

**Innovationproject 18**

ETH Zurich, Product Development Group Zurich (pdz)

December 2018 Competition Finalists

**Matura Thesis:** Traditional Production of Bündnerfleisch

Freies Gymnasium Zürich (FGZ)

March 2016

**Language and Photography Course**

London, UK | July 2014

## Skills

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### Industry Knowledge & Expertise

- **Travel Management:** Cost & Comfort Optimisation, Route & Schedule Planning, IRREG Handling
- **Aviation:** Operations, Revenue Management, Network Management
- **Mechanical Engineering:** Mechatronics, Robotics, Research, Development, Modelling, Simulation, Prototyping, Production, Testing
- **Industrial Engineering:** Automation, Product Development, Process Design, Production
- **Biomedical Engineering**
- **Design:** UI, UX, Engineering Design, Graphical Design
- **Digital Technology:** Automation, Software Development
- **Data Science:** Analysis & Visualisation, Scripting, Automation, Software Development
- **Defense**
- **IT:** System Administration, Networking, LAN, Server Management

### Tools & Technology

- **Productivity:** Microsoft 365, Google Workspace, Overleaf, Confluence, Jira, Trello, Notion, Git, GitHub, GitLab
- **Production & Prototyping:** 3D-Printing, Laser-Cutting, Soldering, PCB, CNC, And more
- **Modelling & Simulation:** Siemens NX, AutoCAD, Blender, Matlab/Simulink
- **Programming Languages:** C#, C++, Python, MicroPython, BASIC, BASH, JavaScript, Matlab, R
- **Markup Languages:** HTML, CSS, LaTeX, Markdown
- **IDE:** Visual Studio, VS Code, JetBrains Suite, Jupyter Notebook, RStudio, Thonny, Unity, PyScript
- **Graphic Design:** Adobe Suite, Affinity Suite, Pixelmator
- **Embedded Systems:** Arduino, ESP (MicroPython), Raspberry Pi
- **IT:** Synology NAS, Zyxel Firewall & Switch, Unify, Self-Hosting, VM, Docker

### Interpersonal

- **Communication**
- **Creativity**
- **Leadership:** Military technical expert group leadership role, Decision-making under pressure, Time and resource management, Leading student, engineering, TA teams and student projects, Youth Club instructor
- **Mentoring:** Student mentoring & coaching at ETH Zurich, Student team coaching, Conflict resolution, Time management and support, Volunteer at Children Village in Morocco
- **Project Management:** Task assesment, Planning and allocation, Stakeholder management
- **Common Sense**
- **Curiosity**

## Languages

- **Swiss German:** Mother tongue
- **German:** Fluent
- **English:** Fluent
- **French:** Mostly fluent (second mother tongue)
- **Danish:** Beginner

## Hobbies

- Science, Technology, Creativity
- Learning, Discovering, Problem Solving, Playing
- Travel, Aviation, Railways
- Reading, Writing, Photography, Design, Film
- Golf, Yoga, Swimming, Winter Sports

## Would you like to know more?

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If my résumé has caught your interest, please explore the full interactive version and my portfolio online!



<https://nick4rt.github.io/personal/cv>