

# Matteo Merk

Born on 24.12.2000 in Zurich



## Contact Details

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Address Dübendorf,  
Switzerland

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## Education

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- 09/2023 – present **Bachelor of Science ZHAW in Mechanical Engineering**  
Expected graduation: 07/2026
- Specialisation in Computational Lightweight Design and Systems and Automation Technology
  - Bachelor Thesis: Structural Analysis and Optimisation of a STOL Light Aircraft
  - International Profile with semester abroad in Oslo, Norway
- 01/2021 – 05/2021 Military recruit school as aviation soldier in Payerne and Meiringen
- Aviation Ordnanceman F/A-18
- 08/2016 – 07/2020 **Polymechnic EFZ** with Vocational Baccalaureate, Empa Dübendorf
- Specialisation in prototype manufacturing
  - Internal design internship in 3rd year of apprenticeship
  - Industry internship at Kyburz Feinmechanik in 3rd year of apprenticeship

## Professional Experience

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- 01/2026 – 02/2026 **Workshop Technician at Ensinger Composites, Otelfingen**
- Supported production of composite products and ongoing projects during semester break
- 06/2023 – 09/2023 Temporary Employment
- 11/2021 – 02/2023 **Workshop Technician at Ensinger Composites, Otelfingen**
- Independent production of high-quality composite components, including carbon plates for medical technology
  - Manufactured prototype components for ongoing projects and test specimens for material characterisation
  - Commissioning and optimisation of a CNC milling machine to sustainably improve efficiency and quality
  - CAD design of test setups using SolidWorks
- 08/2020 – 12/2020 **Polymechnic at Empa Dübendorf**
- 5-axis CNC milling with CAM programming
  - Manufacturing of prototypes and components for research
- 08/2016 – 08/2020 Apprenticeship as Polymechnic EFZ at Empa Dübendorf

## Projects

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- 6th Semester ZHAW **Bachelor Thesis – Airframe Structure**
- Development and structural optimisation of the airframe of a STOL light aircraft

- Participation in the RAeS International Light Aircraft Design Competition

## Software & Programming Languages

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CAD/CAM	<b>3DEXperience(Catia)</b> , Solidworks, Autodesk Inventor, Fusion360, Onshape
FEM	<b>Abaqus</b>
Programming Languages	<b>Python, Matlab/Simulink</b>
Tools	ABB Robotstudio, B&R Vision, KISSsoft, Moldex3D Studio, Overleaf(Latex), Microsoft 365

## Certificates / Licences

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SPHAIR	10/2019 – Recommended for military pilot training
Glider Pilot Licence (SPL)	since 09/2017 – Over 700 flight hours; competition pilot at national and international level

## Language Skills / Stays Abroad

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German	Native language
English	Business fluent <ul style="list-style-type: none"> <li>○ C1 (Advanced) English Course ZHAW (24 lessons, Autumn 2025)</li> <li>○ 54 credits earned in English during studies</li> <li>○ English language course in South Africa (6 weeks, 2023)</li> </ul>
French	Basic school knowledge
Stay Abroad Norway	5 months as part of studies, working language: English

## Leisure Activities & Voluntary Engagement

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Gliding Club Winterthur	Gliding and voluntary work <ul style="list-style-type: none"> <li>○ Theory instruction for student pilots</li> <li>○ Responsible for maintenance and repairs of club aircraft</li> </ul>
Sport	Ski touring, hiking, jogging

## References

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References available upon request