



# MARK FISCHER

MECHANICAL ENGINEERING STUDENT  
AEROSPACE & STRUCTURES

## CONTACT

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## SKILLS

- CAD (Fusion 360/NX)
- Aerodynamic Analysis (XFLR5)
- Basic CFD (SimpleFOAM)
- Microsoft Office
- Programming (C++/Python)
- Mechatronics
- Aerospace modelling
- FDM
- Lasercutting
- Soldering
- Technical drawing
- Control systems design

## LANGUAGES

- German (Fluent)
- English (Fluent)
- Spanish (Fluent)
- French (Basic)



## PROFILE

Mechanical engineering student at ETH Zürich specializing in aerodynamics and structural analysis. Experienced in designing and building RC aircraft, with ongoing thesis work on multi-load-case structural optimization of UAV wing structures. Comfortable across the full stack from aerodynamic simulation to CAD, FEM, and Python-based analysis tooling. Looking to contribute to projects at the intersection of aerospace and applied mechanics.



## WORK EXPERIENCE

- Mechanics I Teaching Assistant** 2025
  - University teaching
  - Weekly exercise sessions
  - Exam preparatory course
- Voluntary Firefighter** 2021-2023
  - Teamwork strategies - stress management
- Frommelt Zimmerei und Ing. Holzbau** 2020-2021  
summer job
  - Woodwork during vacations
- Voluntary Firefighter (Youth group)** 2016-2021



## EDUCATION

- ETH Zürich - Mechanical engineering Bsc.** 2023-2026  
Currently in 6. Semester
- Liechtensteinisches Gymnasium Vaduz** 2011-2023  
Specialization: Modern Languages - Spanish and Italian  
Term Papers:
  - Simulation of a Gravity Assist using GMAT 2021/22
  - Functionality of the RS-25 rocket engine 2022/23

