

Frederik Walla

Mechatronics Engineer

Driven Mechatronics Master's candidate with hands-on expertise in process optimisation, system automation, and mechanical fabrication. Proven track record of delivering measurable impact at industry leaders like BMW and Audi. Leveraging a strong international profile from exchanges in the UK and Sweden, while actively advancing B1 Swedish to C1 proficiency via SFI.



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WORK EXPERIENCE



Kirinus Health GmbH
WORKING STUDENT - ACCOUNTING DIGITALISATION 2024

- Automated manual accounting workflows by integrating Candis invoice management software.
- Accelerated processing times from 3 weeks to under 1 week and eliminated lost invoices, driving a leaner, higher-quality financial system.



BMW Group
INTERN - PRODUCTION PLANNING 2021/22

- Led a strategic sustainability transition project for battery and propulsion component production, partnering with an external research institute to audit manufacturing systems.
- Engineered a digital twin of facility energy usage, significantly increasing manufacturing process transparency and enabling data-driven optimization.



AUDI AG
INTERN - MECHANICAL PRODUCTION 2019


- Fabricated mechanical components by operating industrial milling, turning, and welding equipment.
- Bridged the gap between engineering specifications and shop-floor execution, gaining practical insights into design-for-manufacturing (DFM) requirements at the production line level.

EDUCATION

Expected 2026
Master's in Mechatronics 
Technical University of Munich

2023
Bachelor's in Mechanical Engineering 
Technical University of Munich

INTERNATIONAL EXPERIENCE

2025/26
KTH Royal Institute of Technology, Sweden 

2022/23
Aston University, UK 

SKILLS

Software: Autodesk, KiCad, FreeCAD

Programming: Python, Matlab / Simulink, C, C++

Specialised: Robotics, Batteries, Control Systems

LANGUAGES

English (C2)
Swedish (B1, studying for B2/C1)
German (C2)