



Gabriel Wendel

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EDUCATION

Mobility Engineering MSc Chalmers University of Technology	Aug. 2023 – June 2025 Gothenburg, Sweden
Mechanical Engineering BSc Chalmers University of Technology	Aug. 2020 – May 2023 Gothenburg, Sweden
Aeronautical and Automotive Engineering Erasmus+ Exchange Loughborough University	February 2024 – June 2024 Loughborough, United Kingdom
English Language Course EF Education First	January 2019 – February 2019 Toronto, Canada
Naturvetenskapsprogrammet Gymnasieutbildning (High School) Hulebäcksgymnasiet	Aug. 2015 – May 2018 Mölnlycke, Sweden

WORK EXPERIENCE

Customer Service Representative <i>Nouryon</i> <ul style="list-style-type: none">Summer Intern Customer Service and Order Entry RepresentativeHome and Personal Care - EMEAOversee the "Order to Invoice" cycle in SAP, which involves handling orders and requests and ensuring customer satisfaction through collaboration with sales, planning, and logistics.	June – August 2023, July – August 2024 Gothenburg, Sweden
Process Operator <i>Nouryon</i> <ul style="list-style-type: none">Summer Intern Process Operator EMU Stenungsund SiteIn-plant inspectionsProduct Sampling and Sample analysis	June – August 2022 Stenungsund, Sweden
Sales Clerk <i>Willys</i> <ul style="list-style-type: none">Sales Assistant at Willys Grocery StoreWorked with online orders and as a cashier	May – August 2019, July – August 2020, June – August 2021 Källered, Sweden
Machine Operator <i>Precomp Solution AB</i> <ul style="list-style-type: none">Machine Operator at Precomp Solution AB, one of Europe's leading manufacturers of precision components for the automotive and engineering industries	June – August 2017, July – August 2018 Ulricehamn, Sweden
Sales Clerk <i>Bauhaus</i> <ul style="list-style-type: none">Sales Assistant at Bauhaus Warehouse	August – November 2018 Bäckebo, Sweden

MASTER THESIS

Advanced Driver Assistance Systems (ADAS) Usage and Resulting Safety Effects Spring 2025 Department of Mechanics and Maritime Sciences Chalmers University of Technology, Volvo Cars <ul style="list-style-type: none">Assessing the patterns and safety benefits of Advanced Driver Assistance Systems (ADAS) by analyzing Volvo fleet data to understand usage patterns and driver behavior.Report available at: http://hdl.handle.net/20.500.12380/309880	
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Hard Top Airfoil System

Spring 2023

Department of Mechanics and Maritime Sciences

Chalmers University of Technology, Volvo Group Penta

- Application of foldable airfoils to a 30-foot powerboat in order to reduce drag and increase energy efficiency and operating range. XFOIL together with 2D and 3D simulations in STAR-CCM+ were employed in the selection of wing profile and dimensions. The calculation of hull resistance followed the Savitsky method.
- The project involved a collaboration between students from Chalmers University of Technology and Pennsylvania State University.

AUTOMOTIVE ENGINEERING PROJECT

Machine Learning-Based Optimization for Battery Pack Cooling

Autumn 2025

Department of Mechanics and Maritime Sciences

Chalmers University of Technology, AFRY

- Project in the course TME180 Automotive Engineering Project in collaboration with AFRY.
- Optimized EV battery cooling channels by integrating machine learning (ML) and computational fluid dynamics (CFD). Developed a surrogate model to predict system performance and employed a genetic algorithm to optimize geometry, enhancing thermal management while reducing computational time.
- Report available at: <http://hdl.handle.net/20.500.12380/309112>

SKILLS

Languages: Swedish (First Language), English (Advanced), German (Basic)

Programming: Python (NumPy, Pandas, Pytorch, Blender Python API), MATLAB, Simulink, C++ (Basic)

Computational Fluid Dynamics, CFD: STAR-CCM+, XFOIL

Computer-Aided Engineering, CAE: ANSYS

Structured Query Language, SQL: PostgreSQL

Enterprise Resource Planning, ERP: SAP

Computer-aided design, CAD: Catia, Siemens NX, Blender, FreeCAD

Driving Licence: AM, B

CERTIFICATES

Civil Engineer Certificate, Bachelor's Degree, and Master's Degree

Chalmers University of Technology

Gothenburg, Sweden

- Certificates available at: <https://www.student.ladok.se/kontrollera> (enter below access code and personal number).
- Access Code: **TO6EW-84PMT**
- Personal Number: **19990217-9416**

REFERENCES

Available upon request