

Valentin Nania

Automotive Engineer - Geneva, Switzerland

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Automotive engineering graduate, completing an MSc in Advanced Motorsport Engineering (expected December 2026). Currently building a vehicle simulation model at Van Amersfoort Racing. Experience in hands-on mechanics, vehicle simulation, data analysis and software development.

PROFESSIONAL EXPERIENCE

Engineering Intern - Talent Program & Master's Thesis 05/2026 - Present
Van Amersfoort Racing (VAR), Zeewolde (NL)

- Building a vehicle model of the VAR Formula 4 car in Canopy, combining known vehicle parameters with real track data to improve the correlation between simulation and the real car.

Driver Performance Support 01/2025 - 01/2026
Independent project, Geneva (CH)

- Helped amateur drivers improve on racing simulators: analysed their telemetry and gave feedback on driving technique, racing lines and racecraft to improve consistency and lap times.

Military Service 01/2024 - 11/2024
Swiss Army, Drogens and Payerne (CH)

- Recruit school as a truck driver, then office and IT support at the Air Force officer school.

Suspension Department Member 07/2021 - 09/2023
Bern Racing Team - Formula Student, Biel (CH)

- Nebula (2023):** designed the rear rocker to improve the suspension geometry, added suspension travel sensors and tested carbon tubes with aluminium parts to assess weight savings and strength.
- Adia (2022):** helped design suspension components, improving reliability and reducing weight.

Motorsport Engineering Intern 07/2022 - 09/2022
Enrico Fulgenzi Racing, Jesi (IT)

- Workshop and race preparation:** assembly, maintenance, repairs and box setup.
- Data:** installed and configured the on-board data logging systems, analysed data with the engineers to optimise the setup, and reviewed it with the driver after the race.

PROJECTS

Live Telemetry Performance Tool 2025 - 2026

- C++ application for iRacing: live data overlays and a ghost lap database showing where time is lost.

Bachelor's Thesis: Digital Race Analysis & Optimizing Vehicle Settings 2023

- iOS app (Swift) for driver feedback and MATLAB application to score car setups tested on a simulator. The best setup generated by a neural network was 0.614 s per lap faster than the reference.

EDUCATION

MSc Advanced Motorsport Engineering - National Motorsport Academy (NMA) 2025 - Present
Degree awarded by De Montfort University, Leicester (UK)

BSc Automotive Engineering - Bern University of Applied Sciences (BFH), Biel (CH) 2020 - 2023

Federal Vocational Baccalaureate - Ecole des métiers Lausanne (ETML), Lausanne (CH) 2019 - 2020

Automotive Mechatronics Technician CFC - Ecole des métiers Lausanne (ETML), Lausanne (CH) 2015 - 2019

SKILLS

Design & simulation	Siemens NX, Autodesk Inventor, Ansys (FEM, Fluent CFD), STAR-CCM+, MATLAB & Simulink, ChassisSim, Canopy Simulations
Programming	C++, Python, MATLAB (App Designer), Octave, Swift (Xcode), Git
Data analysis	MoTeC, Cosworth Pi Toolbox, VBOX Circuit Tools, data logging, machine learning
Languages	French (native), English (B2-C1), Italian (B2), German (B1)
Driving licences	A, B, BE, C, CE, D1, D1E, ADR certificate (dangerous goods)