

Professional Profile

Software architect specializing in AI-enabled systems — agentic architectures and tool orchestration that bring LLM-driven capabilities into the software development lifecycle — alongside production software architecture for automotive infotainment and embedded ECU platforms. iSAQB® CPSA-F certified, with a foundation in scalable, reliable system design. Passionate about mobility and the intersection of transportation, data, and intelligent software.

Professional Experience

Engineering Consultant — Software Architecture July 2025 – Present
Alten GmbH (for BMW Group) Munich, Germany

- Design of AI-enabled software-engineering workflows: agent-based architectures and tool orchestration (MCP)
 - Software architecture for infotainment systems — UX orchestration and system-behavior design
 - Digital product development on embedded automotive ECU platforms
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Engineering Consultant Sept. 2023 – June 2025
Alten GmbH (for BMW Group) Munich, Germany

- Graduate Consultant — Business France V.I.E (Sept. 2023 – Aug. 2024): powertrain ECU software and Python tooling for process automation
 - Function owner, test manager, and defect manager across infotainment domains (Sept. 2024 – June 2025)
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Working Student in Development of Electrical Drives Nov. 2020 – Aug. 2021
AUDI HUNGARIA Zrt. Győr, Hungary

- Evaluating powertrain testing-bench measurement data, making reports in German
 - Disassembly and analysis of power electronics of electrical drives
 - Coordinating another internship project and supporting the work of full-time engineers
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Education

M.Sc. in Electrical Engineering Feb. 2021 – July 2023
Budapest University of Technology and Economics Budapest, Hungary

- Specialisations: Electric Power Systems, E-mobility
 - Thesis: Efficiency Analysis of Electrical Drive Components of Electric Vehicles — in cooperation with Robert Bosch Kft.
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Erasmus+ Exchange Oct. 2021 – Sept. 2022
Technical University of Munich (TUM) Munich, Germany

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B.Sc. in Electrical Engineering Sept. 2017 – Jan. 2021
University of Pannonia Veszprem, Hungary

- President, Student Union of the Faculty of Information Technology — led an 8–10 person team, coordinated student projects and faculty cooperation

Certifications

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Fundamentals of MCP · MCP: Automation in Production (Unit 3)
Hugging Face

2025

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Driving licences : Class B; BMW Prototype Driving Licence (B1)

Technical Skills

Architecture & Methods : Software Architecture (iSAQB® CPSA-F), AUTOSAR, UML/PlantUML, Threat Modeling, CI/CD, SOME/IP

AI & ML : GenAI & LLM integration, MCP / agentic workflows & tool orchestration, Matlab/Simulink modeling

Programming : C/C++, Python

Platforms & Tooling : Linux, Android, Docker, Git, DLT Viewer, Jira/Confluence

Languages

German (C1), English (C1), French (B1), Hungarian (Native)

Competition and Honours

E.ON Challenge.On Electrical Engineering Championship
E.ON Hungary

1st place (National Finals)
2022

- Designed a sustainable microgrid solution for energy communities and pitched it to the E.ON leadership committee

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Gábor Biros Medal
University of Pannonia, Faculty of Information Technology

Outstanding work for the students
2021

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35th National Scientific Student's Associations Conference (OTDK)
University of Pannonia

Special Award
2021

- Topic: Permanent Magnet Synchronous Motor — Parameter Sensitivity Analysis and Parameter Estimation; qualified via 1st place at the institutional conference (TDK, 2020)

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ContiCup Electrical Engineering Championship
Continental Automotive Hungary Kft.

1st place (National Finals)
2019

- Designed an analog-circuit smart-traffic-light prototype and presented it to Continental's corporate and professional committee

Interests & Hobbies

Actively engaged in BMW's internal AI community (AI meetups and conferences), continuously identifying AI use-cases for process automation and enhanced user experience. Keen reader on mobility, software, AI, and startups; enjoys hiking in the Alps and tennis.