

Harald Fuchs

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Education

- Technische Universität Wien**, BSc Elektrotechnik und Informationstechnik Mar 2025 – Mar 2028
- **Focus areas:** Mathematical foundations, Programming, Semiconductor Physics, Signals & Systems, Modelling
 - Currently 109.75/180 ECTS in 3 Semesters and mid-year entry
- TGM Wien**, Elektronik und technische Informatik (HTL) Sep 2019 – Jun 2024
- **Focus areas:** Embedded Systems, Digital & Analog Electronics, PCB Design, Microcontroller Programming
 - **Electives:** Robotics, IoT, IT Law, Spanish, Ham-radio certificate course
 - Graduated with distinction — Matura 1.1, Annual GPA never below 1.1 across all five years

Professional Experience

- Working Student – Automation Engineer**, Siemens AG Jan 2026 – Apr 2026
- Supported the engineering team on automation projects for the pharmaceutical industry, working with SIMATIC PCS 7 and TIA Portal and assisting with on-site commissioning at customer facilities.
- Embedded Engineer (Contract Base)**, Seibersdorf GmbH Sep 2023 – Jul 2024
- Developed hardware and firmware for a fully autonomous two-axis measurement system for Co-60 gamma radiation, with STM32-based motion control in C and LabVIEW-driven automation and data acquisition.
- Internship – Software Engineer**, Documatrix GmbH Aug 2022 – Aug 2022
- Full-stack development with Go and TypeScript, including a complete migration of the production frontend from JavaScript to TypeScript and a switch from Webpack to esbuild that cut build times by roughly 10×

Selected Projects

- TU Wien & Infineon Workshop** Feb 2026 - Feb 2026
- On-device TinyML object classification with 60 GHz radar (Infineon PSoC6, FFT features, 3 model iterations) — full stack from MicroPython firmware to Next.js dashboard
- ProcessPilot** — DSGVO-compliant AI automation for Austrian SMEs Feb 2026 – present
- Internal chat-assistant over internal company documents with a vector database, EU hosted and using Azure OpenAI LLMs - Docker, Redis, Next.js, RAG,
- BLDC Electronic Speed Controller** Jan 2023 - Jul 2023
- Custom drone ESC, running FOC algorithm which leads to smoother torque and higher efficiency

Skills

Programming & Data: Python, C/C++, TypeScript, SQL, Git, pandas/NumPy

AI & Agentic Systems: Agent orchestration and tool use, RAG, prompt engineering, LLM evaluation, LangGraph

Tools & Systems: Docker, Linux, Github, REST APIs, Node.js

Automation & Embedded: STM32 (bare-metal C), SIMATIC PCS 7, TIA Portal, LabVIEW

Business & Collaboration: Client-facing requirements gathering, technical documentation, agile teamwork, on-site commissioning, team leadership (multiple project lead roles)

Languages: German (native), English (fluent)

Additional Information

Interests: AI & engineering trends, reader across topics like business building, quantum, philosophy, productivity

Other: Private tutoring (Math, Programming); strength training & fitness, mountaineering, skiing