

Alexander Jahn

Electrical engineer and software developer · Cologne, Germany

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I build software for robots and measurement systems. I am CEO of XL Assembly, where we develop robotic cells for ultrasonic inspection, and I build self-hosted tools and small apps on the side.

EXPERIENCE

CEO · XL Assembly GmbH · Aachen — Nov 2025 – present
Leading the company and the development of an automated robotic cell with dynamic trajectory planning for processing gas and steam turbine blades.

Freelance software developer · Siemens Energy · Budapest — Feb 2021 – Nov 2025
Industrial software for a robotic measurement cell, development of AI models and software maintenance.

Freelance software developer · Bayer · Leverkusen — Jan 2022 – Dec 2024
IoT development in Kotlin and a Python backend on AWS for MagicTrap, in an agile team.

Freelance software developer · Siemens · Fürth — Oct 2021 – Sep 2023
C++ development for industrial displays.

Freelance software developer · XL Assembly GmbH · Aachen — Mar 2019 – Nov 2025
C# desktop software for industrial applications.

Full-stack developer · Fedger.io · Cologne — Jan 2019 – Oct 2019
Python, HTML, JavaScript, CSS and PostgreSQL for a cloud-based automation tool built around a computer vision model in TensorFlow. Agile and extreme programming.

EDUCATION

Master's degree in Electrical Engineering — 2017
Federal University of Minas Gerais (UFMG) · Brazil · grade 1.9

B.Sc. in Electrical Engineering — 2015
Schmalkalden University of Applied Sciences · Germany · grade 1.5

Electronics technician for automation technology — 2013
Bosch · Eisenach · vocational training

SKILLS

Programming in order of proficiency
Python, C#, Kotlin, Rust, JavaScript/TypeScript, HTML, CSS, C++, Matlab/Octave, C, Java, PHP

Languages
German (native), English (fluent), Portuguese (basic)

PROJECTS

Anchor+	Offline-first, self-hostable note-taking app for Android and the web. Open source.
Leihdock	Booking system for businesses that rent out roof boxes, roof bars and bike carriers. Launching soon.
BrowserFork	Tiny browser picker for Windows 11: choose the browser and profile for every link you open.
printer_fork	Tiny Windows launcher that opens a file, such as a .3mf print, in the right program based on your own rules.
3D printing models	Models I design and publish for 3D printing.
Köln Ratsinfo Redirect	Browser extension that sends slow links to Cologne's council information system to a faster mirror.
UAV path planning	Code for the paper “Sampling Based Path Planning and Vector Fields for Curve Tracking by UAVs”, written with Luciano Pimenta.