Tassilo Waldraff

Passionate AI Leader, C-Level Technician & Serial Entrepreneur

With 14+ years of experience in AI and tech innovation, I'm a hands-on entrepreneur skilled at turning ideas into reality. I excel in leading teams, building AI solutions, and thriving in fast-paced environments. With a successful exit and a patent, I bring expertise in machine learning, product development, and leadership across multiple sectors.

Tassilo Waldraff
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Personal Details
German nationality
Swiss C permit
Age 43, Married, 1 Child

Education
Diploma (≈ Master in Computer Science, University of Stuttgart 2010)
Certified Scrum Master

Languages
English (Professional)
German (Native)

Interests
Historical Martial Arts
Beer Brewing & BBQ
Global Travel
Sailing and Motorboating

Experience summary

Senior Director AI   Patient21 GmbH, 2023-2024
Leading AI initiatives, building and managing a tech team, and developing AI-based healthcare solutions.

CTO & Founder   CellmatiQ GmbH, 2017-2022
Founded and scaled an AI-driven medical imaging startup. Secured funding and led the company to a successful acquisition by Patient21 GmbH.

Technical Lead   Solera Holdings inc., 2011-2016
Led AI, AR/VR, and mobile solution development in the automotive sector, securing patents for 3D modeling technologies. Managed global product rollouts across 22 countries and built high-performing teams.

Software Engineer   Fritz & Macziol GmbH, 2010-2011
Developed logistics software for large production facilities, ensuring seamless integration and rollout of custom solutions.

Achievements

Successful Exit	Led CellmatiQ GmbH to a successful acquisition
Secured Funding	Raised €150K in seed funding for CellmatiQ
Patent Holder	Developed and patented neural network training method
Award	Arnold-Biber-Preis for AI innovations in Orthodontics
Regulatory	Achieved MDD (EU/CE) medical certification

Skills & Expertise

AI & Machine Learning: Extensive experience in developing AI-driven solutions based on CNNs, LLMs and Gen-AI and Computer Vision

Software Architecture: Expertise in designing scalable, high-performance systems, including API development and microservices.

Product Development: Proven ability to bring digital products from concept to market, with a focus on user-centric, scalable, and certified solutions.

Team Leadership: Skilled in managing and scaling distributed teams, creating structures for growth and fostering a culture of innovation.

Cloud Technologies & DevOps: Expertise in cloud solutions (AWS, Docker) and CI/CD workflows, ensuring seamless product deployment.

Programming: Python, JavaScript/TypeScript, CSS, QT/C++, Java

Experience

Senior Director AI   January 2023 - July 2024
Patient21 GmbH   Berlin, Germany & Bottighofen, Switzerland

Led key AI initiatives, focusing on innovation and strategic development in artificial intelligence. Pioneered documentation automation using Large Language Models (LLM) and Speech-to-Text (STT) technologies, significantly improving process efficiency and accuracy. Spearheaded AI-driven solutions for caries detection (CNN), advancing dental health diagnostics.
Actively built and managed a team of 3 AI professionals, fostering collaboration across departments to integrate AI solutions seamlessly into existing workflows. The role was 60% hands-on programming and 40% management.

Technology Stack: Tensorflow, Keras, Python, Flask, REST-API, ReactJS, JavaScript, TypeScript, NodeJS, Gitlab, CI/CD, NoSQL/MongoDB, SQL/Postgresql, Docker, AWS cloud, microservices, mircofrontends.

CTO & Founder   January 2017 - December 2022
CellmatiQ GmbH   Hamburg, Germany & Zurich, Switzerland

Pioneered the development of a medical-certified AI cloud platform, positioning CellmatiQ GmbH as a leader in AI-driven medical imaging analysis. Led the strategic mission to enhance complex image analysis through automated detection and classification of structural patterns, optimizing workflows and augmenting visual assessments with validated AI methods. Successfully developed and launched adaptable AI modules for diagnostic protocols, including cephalometric analysis, image modality classification, and caries detection. Built an expandable AI framework leveraging CNNs for structure detection and ensured cloud-readiness for AI-as-a-Service deployment.

The platform services were deeply integrated into the systems of three major key players, and our own product was globally available. Achieved MDD (EU/CE) medical certification for the first product, establishing a foundation for further certifications (MDR, FDA). The company grew to a maximum of 10 employees, with my role being 70% hands-on development and 30% management. Orchestrated a **successful exit** in 2022, marking a key milestone in the field of medical AI.

Technology Stack: Tensorflow, Keras, Python, Flask, REST-API, Swagger, ReactJS, JavaScript, CSS, NodeJS, Gitlab, CI/CD, NoSQL/MongoDB, Docker, AWS cloud, Terraform, microservices, microfrontends.

Technical Lead of Innovations   July 2014- December 2016
Dep. R3PI - Solera Holdings inc.   Dallas, USA & Zurich, Switzerland
Played a pivotal role in establishing and scaling innovative technology departments across Dallas, London, and Zurich. Led two teams of 12 developers, fostering a culture of innovation and technical excellence. Managed strategic hiring and team development to drive the company's technological ambitions. Led the development of cutting-edge augmented reality (AR) and machine learning (ML) products, positioning Solera at the forefront of emerging technologies.
Effectively coordinated cross-functional teams across multiple international locations, ensuring cohesive collaboration and alignment with global strategy. Oversaw the full innovation lifecycle, from concept to deployment, integrating new technologies into Solera's offerings. Spent 40% of the time onsite in Dallas, with the role comprising 80% hands-on programming and 20% management.

Technical Lead R&D   November 2013 - June 2014
Dep. D&D - Solera Holdings inc.   Dallas, USA & Zurich, Switzerland
Led the formation and oversight of a dynamic development team of around 5 members, fostering an environment focused on exploring innovative 3D modeling and AR/VR technologies. Pioneered the development of an AR/VR 3D hail scanner, securing a patent and setting new industry standards in 3D modeling. Also led the AR/VR 3D vehicle reconstruction initiative, improving accuracy and efficiency in damage assessment and repair processes.
Played a key role in investor relations, delivering high-impact product demonstrations to showcase the practical applications of innovative solutions. Collaborated closely with internal teams and external partners to ensure alignment with the company's strategic objectives. Spent 30% of the time onsite in Dallas, with 80% of the role dedicated to programming and 20% to management.

Development Program Manager   November 2011 - October 2013
Audatex CH - Solera Holdings inc.   Zurich, Switzerland
Played a key role in conceptualizing and launching the company's first mobile product, leading the initiative from vision to production within a 12-month timeline. Managed a team of 13 developers across Zurich and Skopje (Macedonia), fostering innovation and technical excellence. Successfully oversaw the global rollout of the mobile product across 22 countries, ensuring adaptability to diverse market requirements.
Led integration efforts to ensure seamless compatibility with the existing enterprise ecosystem, enhancing system functionality and user experience. Collaborated closely with IT, marketing, and sales to align the product's development and launch strategy with the company's broader objectives. The role was evenly split between 50% hands-on programming and 50% management.

Java Software Engineer   November 2010 - October 2011
Fritz & Macziol GmbH   Ulm, Germany
Developed advanced logistics software solutions tailored to the complex needs of modern production facilities. Actively participated in on-site rollouts, ensuring smooth integration with existing systems.