Nima Ghorbani

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Education

Eberhard Karls University of Tübingen, Neural Information Processing — Tübingen, Germany, 2015 – 2017

Tabriz Azad University, Electrical Engineering, Electronics — Tabriz, Iran, 2008 – 2012

Experience

Cubert Hyperspectral (Cubert GmbH), Head of Artificial Intelligence — Ulm, Germany (On-site), Aug 2026 – present, 4 months

Lead AI at Cubert: the Cuvis.AI framework and its integration into the CuvisNEXT software, the AI roadmap and team, and AI solutions for industrial hyperspectral customers.

Cubert Hyperspectral (Cubert GmbH), Principal AI Architect — Ulm, Germany (On-site), Oct 2025 – Aug 2026, 11 months

Focus on AI frameworks, agentic tools, and scalable data-processing systems for hyperspectral imaging and industrial computer vision. Bridge advanced sensor data with modern AI workflows, including modular processing pipelines, machine-learning integration, natural-language analysis of visual and spectral data, and production-oriented systems for real-world industrial applications.

Sporttotal Technology GmbH, Head of Artificial Intelligence — Berlin, Germany (Remote), Sept 2024 – Sept 2025, 1 year 1 month

Developed AI-powered systems for fully automated sports broadcasting, immersive content generation, and advanced sports analytics. Work spanned real-time object detection and tracking on edge devices, human pose estimation, 3D body reconstruction, and identity tracking for sports productions. Additionally contributed to texture generation from sparse image samples using optimization techniques and diffusion-based inpainting, enabling high-fidelity 3D game reconstructions and interactive viewing experiences.

Sporttotal Technology GmbH, Principal Computer Vision Engineer — Berlin, Germany (Remote), Mar 2023 – Sept 2024, 1 year 7 months

Kaia Health Software GmbH, Staff Applied Research Scientist — Munich, Germany (Remote), Apr 2022 – Feb 2023, 11 months

Kaia Health is a digital therapeutics company that leverages AI-powered computer vision to deliver real-time, personalized musculoskeletal care through a smartphone camera. Researched and developed core ML models for 3D human pose estimation, motion analysis, and real-time feedback generation, enabling accurate human body tracking and automated movement assessments without wearable sensors.

Max Planck Institute for Intelligent Systems, Research Software Engineer, Digital Humans in Motion — Tübingen, Germany, Feb 2018 – Mar 2022, 4 years 1 month

Perceiving Systems Department (Prof. Michael Black). Contributed to the development of foundational human body models and large-scale datasets that have significantly advanced the fields of 3D human reconstruction and motion analysis. Worked on SMPL-X (expressive human body model) and AMASS (dataset unifying marker-based motion capture with parametric body models for large-scale learning). Helped develop VPoser, a body pose prior for robust 2D-to-3D human lifting in SMPLify-X. Also contributed to GRAB (a generative model for human grasping) and SOMA (a framework for synthetic data generation for human-object interaction understanding).

SuperPipe International Co., Software Engineer, ERP Development and Implementation (Odoo) — Tehran, Iran
Apr 2013 – Mar 2015
2 years

Led a team of two engineers to implement an open-source ERP (Odoo) at SPI, on a Python / PostgreSQL / HTML+CSS stack. Worked closely with finance, HR, warehouse, and inventory teams to integrate their processes into the ERP, supervised by the operational processes department to ensure industry standards were adapted and integrated for the best implementation impact.

Invited Talks

- **Cuvis.AI for RGB+: decisions beyond the visible.** Lecture in the training course *AI for spectral and hyperspectral data processing*, Wageningen University & Research, Wageningen, the Netherlands, 12 November 2026.
- **CuvisNext: AI Evolution of Real-time Hyperspectral Intelligence.** Conference for Hyperspectral Imaging in Industry 2026, Graz-Gösting, Austria, 20 to 21 May 2026.