

# Praneel Bhatia

AI Engineer · Agentic Development · LLM, VLM & VLAs · E2E SaaS · Embodied / Physical AI

Berlin, Germany · UAE Golden Visa holder · EU Blue Card holder

Open to relocate

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## ■ PROFILE

**Swiss Army knife engineer.** T-shaped: breadth across embodied AI, agentic development, and enterprise XR; drills deep into whichever one the problem demands. Drawn to greenfield projects and cold-starts into new tools. Bring fresh ideas to every team I join. Dubai-raised, Germany-trained, Berlin-based.

## ■ EXPERIENCE

**ZanderLabs** · Berlin, Germany 05/2026 - present

**Lead Applied AI Engineer · Full-time**

€30M-funded neuroadaptive technology company (founder: Prof. Thorsten O. Zander). Joined post Auryal IP transition.

- Leading the **Neuroadaptive LLM design** and **Autonomous robotics that align with human intent**.

**Auryal GmbH** · Berlin, Germany 07/2025 - 05/2026 · ~11 months

**Founding AI Engineer · Full-time**

SPRIND-funded 14-person AI startup; worked directly with the CEO. Multi-hat: engineering, applied research, OKR ownership, team enablement, infrastructure, grants.

- **LINKedChat** - collapsed the paradigm rollout cycle from **3-5 weeks to <18 hours** across 4 labs spanning the EU. Solo build via agentic harness: Claude Code + GSD + Superpowers, 34+ skills, 20+ MCP, sub-agents on git worktrees.
- **Robotics flagship.** Sim-to-real VLA pipeline: trained Physical Intelligence's **pi0.5 DROID** in **NVIDIA Isaac Sim** on a **Franka Emika Panda**, deployed to a real **LeRobot SO-101** with custom demonstration-data + policy fine-tuning. 3-component VLM reasoner + LLM interpreter + actor architecture at **15 Hz control / 10 Hz reasoning. First-author NAT 2026** (Auryal × BTU Cottbus-Senftenberg). Owned Jan 2026 in-room investor demo; co-author **NVIDIA Inception** research proposal.
- **Infrastructure. Designed a €300k GPU cluster for model inferencing and training** (ILB grant). Cloud SQL on GCP (PostgreSQL 17, IAM); self-hosted n8n on GCP (Docker / Caddy / Watchtower; company-wide meeting-summary automation).
- **Drove adoption of agentic coding tools (Claude Code, Codex) across the team**; non-devs (research, ops) shipped working prototypes and collected real participant data within **~2 weeks**.

**Siemens Healthineers** · Erlangen, Germany 03/2024 - 07/2025 · ~1.5 years

**Rapid Prototyping Intern -> Bachelor Thesis -> XR/VR Developer**

OpenIT Studio - Design Thinking + Rapid Prototyping innovation unit for Siemens Healthineers IT.

- Multiplayer XR platform for global R&D collaboration. **Led a team of developers as an intern**; now rolling out across Siemens Healthineers EMEA. Cybersecurity training was the initial proof point; the broader bet is R&D teams co-designing products in shared VR. Scaled a 3D PoC during the internship to a production-ready multiplayer **Meta Quest 3 VR** experience through the bachelor thesis. Stack: Unity + ProBuilder + C#, Netcode for GameObjects, LLM-powered NPCs, Azure DevOps.
- Two production internal SaaS tools on **Power Apps + Power Automate + Power BI + SharePoint + Copilot Studio** replacing manual multi-country Excel workflows: **ES Operational Excellence Reporting** (capability-assessment piped into leadership KPI dashboard) and **Internal Talent Funnel** (dual-role HR / candidate app).

**Hochschule Rhein-Waal** · Kleve, Germany 09/2022 - 03/2024 · ~1.5 years

**Teaching Assistant + Student Research Assistant**

- Taught undergraduate **C and MATLAB**; built an OpenAI-driven grading assistant (~85% reported efficiency gain).

## ■ PUBLICATIONS & PATENTS

- **Bhatia, P.** et al. Neuroadaptive Architecture Integrating Synthetic Neural Feedback and Reasoning for Robotic Control. **First author. NAT 2026** · Auryal × BTU Cottbus-Senftenberg.

- Mihić Zidar, L., **Bhatia, P.**, Wicke, P. From Interlocutor to Cognitive Extension: Brain-Computer Interface as a Step Beyond Dialogue in Conversational AI. **ACM CUI 2026**, Bremen, Germany - co-author.
- Design of Electronic Chess Board Using Analogue Hall-Effect Sensors for Piece Identification. **IEEE ICHORA 2025**, Turkey - co-author.
- **Patents:** contributions to Auryal/ZanderLabs **HAL** (Human Alignment Layer) and **GCRM** (Generative Cognitive Reward Model); GCRM **filed at the EPO**.

## ■ EDUCATION

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**B.Sc. Mechatronics System Engineering · Hochschule Rhein-Waal, Kleve**

09/2021 - 03/2025

**Grade 1.7** · Deutschlandstipendium recipient · University Senate student rep · Robotics Club mentor

## ■ CORE SKILLS

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- **AI-assisted dev:** Claude Code (primary daily driver), Codex, Hermes; Spec -> Plan -> Phased Execution -> Sign-off
- **Embodied / Physical AI · LLM, VLM & VLA tooling:** vLLM, TGI, Ollama, llama.cpp; GPT-5.x, Gemini, Claude, Llama, Mistral, Qwen (LLMs); pi0.5, GR00T, OpenVLA, Octo, Cosmos-Reason1 (VLM / VLA); structured JSON-schema tool calling, MCP servers + clients; real-time voice agents via Gemini Live, OpenAI Realtime, Whisper, VibeVoice
- **Full-stack & mobile:** Python, FastAPI, WebSocket / WebRTC / gRPC, React + Vite, Swift / SwiftUI / SwiftData, Playwright E2E
- **Infra & deployment:** GCP (Cloud SQL PostgreSQL 17, Compute, IAM), Docker, Linux, Caddy + auto-SSL, Watchtower, systemd, self-hosted n8n, CUDA / GPU, Git Flow + Conventional Commits

## ■ LANGUAGES

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English (native) · Hindi (native) · German (A2, path to B1)

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