

HARESH KHARWA

AI-Driven Software Developer & Training Content Creator

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PROFESSIONAL SUMMARY

Solo full-stack builder and instructional designer with 15+ years of experience bridging e-learning, training delivery, and AI-paired software development. At Avilus GmbH (Munich), I handle the full computer-based learning programme on Moodle — managing users, courses, modules, gradings, attendance, and certificates — and author bilingual (German & English) HTML course pages from flight manuals. When stock plugins fall short, I write my own custom Moodle plugins, including making two custom plugins communicate to deliver functionality the LMS doesn't ship with. Alongside this, I have single-handedly designed, built, and now maintain four live software platforms used daily across the company, using AI as my primary build partner. I also handle the Docker server, hosting, deployments, maintenance, and subdomains for every internal platform. Fluent in English (C2) and German (B2).

"I'm constantly looking for gaps and challenges around me — and I try to provide a software solution to them. Because I can't stop caring for my company."

PLATFORMS I BUILT (SOLO, WITH AI AS BUILD PARTNER)

All built at **Avilus GmbH** — a Munich-based military drone manufacturer, aircraft producer, and EASA-certified flight operator.

E-Learning Studio — AI-powered course builder

- Upload a flight manual PDF and the studio produces a complete bilingual Moodle course: chapters, modules, AI-generated images, real-world scenarios, worked examples, German & English voiceovers, a PowerPoint deck, Moodle-compatible HTML pages, and a SCORM package with dual-language voiceover. Built-in toggle to switch the generation engine between Natural Language Processing and AI, depending on the content and the desired tone.
- Cuts course-authoring time from weeks to hours; gives instructors finished, ready-to-upload material.

3D Inspection Viewer — iPad-first pre-flight inspection

- Interactive 3D aircraft viewer with hotspots, walk-around path, and embedded inspection images and video clips at each checkpoint. Embedded into Moodle via iframe so pilots can run pre-flight checks on iPad before flying the real aircraft.
- Built iPad-first with pinch-to-zoom, two-finger pan and rotate, and finger-drag on every interactive element. One viewer hosts multiple aircraft projects, each on its own deep link.

Flight Ops & Training Management (FOPS) — ~170 users

- Central operations hub for the entire flight organisation: training records with automatic alerts on expiring and expired certifications, point-of-contact directory, regulatory correspondence log, and safety incident reporting.
- Compliance trackers for SORA (Specific Operations Risk Assessment) and LOFA filings — keeping the company audit-ready under EASA regulations.
- Generates the weekly flight plan as a branded PDF and pushes notifications to the team via Microsoft Teams and email.
- Site visits, maintenance logs, and tech logs in one place — replacing scattered spreadsheets.
- Bulk Excel import for fast onboarding of training and personnel data; exports to CSV, Excel, or PDF for reporting. Role-based permissions per department with a full audit trail.

Innovation Board — tapping company-wide talent

- Built for an environment where the technology we build has never existed before — so problems often have no known solution. Any department can post a challenge, any employee can suggest a solution, everyone can reply, like, and react with emojis. Designed to surface hidden cross-functional expertise.

PROFESSIONAL EXPERIENCE

Instructional Designer · RPIC · Solo Platform Engineer

Avilus GmbH · Munich, Germany

Jan 2026 — Present

- Manage the full computer-based learning programme on Moodle: handle users, build courses, modules, assignments, gradings, attendance tracking, and certificates.
- Author bilingual (German & English) HTML course pages for Moodle, built from flight manuals and SOPs using ADDIE and adult learning principles.
- Created complete training courses covering: *Crew Resource Management (CRM)*; *BVLOS pilot courses for multiple aircraft types (Grille 9X, Wespe 9Y, Bussard 9Z)*; *ground staff maintenance courses*; *specialised training programmes for Bundeswehr personnel*; *Safety Management System (SMS)*; and the *Grille 9X-04 CMU bilingual chairflight assembly course*.
- Develop custom Moodle plugins for special training needs — and engineer two custom plugins to communicate with each other to deliver functionality stock Moodle can't provide.
- Designed, built, and now maintain 4 production platforms (above) end-to-end: architecture, code, Docker images, CI/CD, deployment, monitoring.
- Run the Docker server: image builds, deployments, upgrades, monitoring, maintenance — plus hosting, DNS, and subdomain configuration for every internal platform.
- Assistant Trainer: classroom sessions for new drone pilots, practical flight testing, and assisting with simulation practice and grading across various drone platforms.
- Real-time technical support for learners during Moodle-based examinations.
- Continuously scan for operational gaps across the company and ship software that closes them.

Instructional Designer

Oct 2019 — Mar 2025

Teleperformance Global Services · India · Hybrid

- *H1 2024 Exceptional Performance award*.
- Conducted needs analysis with stakeholders & SMEs; defined objectives and performance goals using ADDIE / SAM.
- Designed curriculum and learning strategy aligned with Bloom's Taxonomy and adult learning principles.
- Built e-learning modules, instructor & participant guides, simulations, and storyboards with Articulate Storyline, Vyond, Synthesia, Gen AI, Photoshop, Illustrator.
- Deployed SCORM packages on Moodle, Canvas LMS, and Saba Cloud; ran ILT/VILT sessions.
- Evaluated learning with the Kirkpatrick Model; analyzed feedback and performance data to iterate.
- Built UiPath RPA workflows to automate quiz/content uploads to the Training Arcade gamification platform.

Web Developer

Feb 2011 — Oct 2019

CarinMumbai · Mumbai, India

- Designed responsive websites, web forms, and landing pages using HTML5, CSS3, Bootstrap, JS, jQuery, WordPress.
- Built dynamic email marketing templates on Mailwizz and Mailchimp.
- Produced multimedia content (videos, 3D graphics) with Blender Studio and After Effects.
- Managed domains, hosting, and email servers on GoDaddy and Hostinger.

SKILLS

AI-paired software development: Daily use of Claude and ChatGPT to architect, build, debug, and document production software. Prompt engineering for code generation, requirements-to-code workflows, and AI-assisted refactoring.

Computer-based learning & instructional design: Full e-learning lifecycle, ADDIE, SAM, Bloom's Taxonomy, Kirkpatrick Model, ILT / VILT / CBT delivery, blended learning, learner gradings & attendance.

Moodle administration: User management, course architecture, modules, assignments, gradings, attendance, certificates, custom plugin development, plugin-to-plugin integration, theming.

Authoring tools & packaging: Articulate Storyline, Camtasia, Adobe Captivate, H5P, SCORM 1.2 / SCORM 2004.

AI media generation: Synthesia (AI avatars), Vyond (animated training videos), AI image generation, AI voiceover (English & German), Whisper STT.

Server & hosting operations: Docker server operations (image builds, deployments, upgrades, monitoring), Portainer, GitLab CI/CD pipelines, VPS administration, hosting and DNS configuration, subdomain management.

Web foundations: HTML5, CSS3, JavaScript fundamentals (advanced work AI-assisted), WordPress, Bootstrap.

Automation: UiPath RPA workflow design and deployment.

Design & media: Adobe Photoshop, Illustrator, After Effects, Blender (basics), Figma.

EDUCATION, CERTIFICATIONS & LANGUAGES

- Bachelor of Commerce — University of Mumbai (2001)
- Web Development Course — Pride Educare (2011)
- Instructional Design Certificate — Govt of India, Skill Development (2018)
- RPA Developer Foundation Certificate — UiPath (2021)

- Exceptional Performance Award — Teleperformance (H1 2024)

Languages: English (C2 — Proficient) | Deutsch (B2 — Upper-intermediate) | Hindi (Native)