

KORAY KARA

Electrical & Electronics Engineer (B.Sc.) • Systems Engineering & AI-Assisted Product Development

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Born 26.08.1996 in Ankara | Nationality: Turkish | Marital status: single
Driving licence: Class B | Military service: completed | Non-smoker



PROFILE

Electrical and Electronics Engineer (B.Sc., degree taught 100% in English) whose core strengths are systems engineering, product development, organisation and analysis, with around four years of hands-on experience in IT management and digital transformation, plus international experience from an Erasmus+ internship in power electronics in France (more than 100 assembled BMS boards without a single defect). Builds software products consistently AI-assisted: concept, architecture, requirements and quality assurance are his own work, while implementation is carried out together with AI coding agents (Claude Code, OpenAI Codex). Degree officially assessed by the German ZAB as equivalent to a German Bachelor-level qualification (09/2025); German B1 (telc-certified), English B2. Goal: a long-term career in Germany in systems engineering, AI-assisted product development, IT or electrical engineering.

PROFESSIONAL EXPERIENCE

Freelance Product Developer & IT Consultant | 03/2025 – present | Ankara, Türkiye

- AI-assisted design and development of multi-tenant web platforms and SaaS applications for SMEs (Next.js, TypeScript, PostgreSQL, Docker)
- Design, development and deployment of the “Aykaralar” corporate platform (Payload CMS 3, CI/CD, Hetzner VPS – staging live)
- Set-up of local AI systems (Ollama, RAG architectures); development of the open-source CLI tool “localai” (Python)
- In parallel: structured preparation for the German labour market (ZAB recognition, pre-integration seminars by SABEV/Diakonie and MNH)

Berliner Grup Türkiye – IT Manager | 07/2024 – 03/2025 | Ankara, Türkiye

- Digital transformation and operational processes of companies active in translation, education and consultancy
- Development of modern, AI-supported websites and web applications; planning of physical and digital marketing activities
- Organisation of university events, information stands and German-language speaking clubs; first-line information for several hundred people on education and career paths in Germany
- Participation in TD-IHK events and in events connected with the German Embassy in Ankara

Kayatürk Grup (incl. Paulmark) – Assistant to the Founder | 01/2024 – 07/2024 | Ankara, Türkiye

- Direct support to the founder of a corporate group with more than 10,000 employees and an annual turnover of approx. USD 200 million (textile, retail and other sectors)
- Legal correspondence, data collection and analysis, cross-departmental coordination with senior executives
- Co-development of AI-supported tools: image processing for people counting, store optimisation and efficiency improvement
- Procurement and installation coordination of digital shop-window displays (digital signage)

Professional Orientation & Entrepreneurial Training | 04/2023 – 12/2023 | Ankara, Türkiye

- Focused post-graduation training in entrepreneurship, technology and AI; participation in professional events, trainings and networking formats (more than 200 professional events attended since 2016)

ElecSys France – Electrical & Electronics Engineering Intern (Erasmus+) | 07/2022 – 09/2022 | Étupes, France

- Assembly, programming and testing of BMS boards (battery management systems) for electric vehicles, working directly with the company founder
- More than 100 assembled units under my responsibility without a single defect; delivery to customers in Switzerland

Rement Information Technologies – Business Development Specialist (started as intern) | 12/2020 – 04/2022 | Ankara, Türkiye

- Front-end and back-end web development, multimedia content and digital marketing campaigns in a university technopark environment
- Co-management of LinkedIn accounts with a combined audience of approx. 2 million followers; organisation of physical and digital events

PTT (Turkish Post) – IT Intern | 08/2018 – 09/2018 | Ankara, Türkiye

- Insight into large-scale public-sector IT projects: server infrastructure, user support, project management tools, documentation

EDUCATION

B.Sc. Electrical & Electronics Engineering – Çankaya University, Ankara | 08/2016 – 03/2023

- Language of instruction: 100% English; thesis: AI model for estimating three-dimensional human body postures
- ZAB Statement of Comparability (Standing Conference of the Ministers of Education, Bonn, 12.09.2025): equivalent to a German Bachelor-level higher-education degree
- Active involvement in 14 student communities (incl. IEEE Student Branch, GDSC, ACM); Erasmus+ stay abroad

TRAINING & CERTIFICATES

- telc Deutsch B1 certificate (09/2024)
- Goethe-Institut Ankara: German courses A1, A2 and B1 (01/2024 – 07/2024, completed with very good results)
- Pre-integration seminar SABEV / Diakonie – “Vorbereitet und erfolgreich nach Deutschland” (08/2025)
- Pre-integration seminar MNH – Meine Neue Heimat, held at the Goethe-Institut (07/2025)
- McKinsey.org Forward Program (07/2025) | NVIDIA Deep Learning Institute certificate
- Systems Engineering in the Defence Industry certificate (MECE482), Çankaya University

SKILLS

- Core competencies: systems engineering, product development, requirements analysis, project organisation, documentation (ADR), UI/UX (Figma), team and process coordination
- AI-assisted development: orchestration of AI coding agents (Claude Code, OpenAI Codex), prompt engineering, RAG architectures, local LLM systems (Ollama), multi-agent workflows
- Technologies used (AI-assisted): TypeScript, Next.js, React, PostgreSQL (PostGIS, pgvector), Payload CMS, Docker, CI/CD (GitHub Actions), Vitest/Playwright
- Programming foundations (degree & early practice): Python, C, C++, JavaScript, HTML/CSS
- Electronics & hardware: embedded systems (ARM, AVR), sensors, power electronics, audio systems; MATLAB, OrCAD, Proteus
- Other: SEO, social media, content production, MS Office; data-protection awareness (GDPR/KVKK), RBAC and audit-log concepts

LANGUAGES

- Turkish: native
- German: B1 (telc Deutsch B1 certificate, 09/2024; continuous study towards B2)
- English: B2 (degree fully taught in English)

SELECTED PROJECTS

All software projects were developed AI-assisted – concept, architecture and quality assurance by Koray Kara; implementation with AI coding agents:

- Aykaralar Platform: multi-tenant corporate platform with CMS and AI visibility (Next.js, Payload CMS 3, PostgreSQL); KVKK/GDPR-compliant, staging live on a Hetzner VPS
- Brücke OS (TreuLink): source-transparent, trilingual consultancy platform for the Germany–Türkiye corridor with a deterministic rules engine
- Youth AI Platform: governance platform for municipalities with geodata (PostGIS), vector search (pgvector) and maps (MapLibre GL)
- localai: security-first open-source Python CLI for local AI systems (dry-run principle, evidence-based model evaluation)
- Hardware & electronics: built and operated a crypto-mining system; self-built MIDI keyboard; design and build of a custom sound system; embedded projects with ARM TM4C123GXL and ATmega328P
- All projects in detail: koraykara.com (“Projects” section)

VOLUNTEERING

- Youth Centre of the Çankaya Municipality, Ankara: member of the Youth Executive Committee – helping shape municipal youth policy (since 06/2026)
- TEMA Foundation (environmental protection): lifetime member
- Further volunteer work incl. KamuYZ, TBD, German Social Activities Association, IEEE Student Branch

INTERESTS

Motorsports, theatre, yoga, swimming, cajón, camping and hiking

Ankara, 12 July 2026 – Koray Kara