

Taha Rıdvan Öztürk

Full-Stack & AI Developer · Co-Founder @ TW Bilişim · AI Dev @ Maviay

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EXPERIENCE

Maviay Yazılım

Jun 2025 — Present

AI Software Developer — Turkey **FULL TIME**

- Developing in-house AI tools and automation systems for business workflows.
- Designing LLM integrations, RAG pipelines, and AI-driven process automation.

TW Bilişim

Jan 2024 — Present

Co-Founder & Full-Stack Developer — Kocaeli Technopark, Turkey **FULL TIME**

- Built 10+ commercial and enterprise web applications using Next.js, React, FastAPI, and Supabase.
- Developed Lazeryeri (B2B laser-cut marketplace with DWG-based pricing engine), Artilex AI platform, and TW CRM.
- Deployed and managed self-hosted infrastructure with Docker and Cloudflare Tunnel.
- Built an AI reporting tool for Kocaeli Metropolitan Municipality using Qwen3.5-27B and FastAPI.

TW Power Mühendislik

Jan 2024 — Present

Co-Founder — Electronics & Energy Systems — Zonguldak, Turkey **PROJECT-BASED**

- Technical consulting in power systems, battery management, and solar energy (GES) projects.
- Filed patent application for TW S-BMS: modular high-voltage isolated Battery Management System.

FHT Yazılım Bilişim

2023

Software Developer — KNX Protocol — Turkey **PART TIME**

- Developed KNX Protocol voice control system using Python.

Kocaeli Metropolitan Municipality — Smart Cities Unit

2023

Software Developer Intern — Kocaeli, Turkey **INTERNSHIP**

- Built an IoT monitoring and visualization system using PostgreSQL, Metabase, and OpenLayers for geospatial data display.

EDUCATION

Kocaeli University

Sep 2022 — Present · Kocaeli

B.Sc. in Information Systems Engineering

Kocaeli University

Sep 2019 — Jun 2022 · Kocaeli

B.Sc. in Mechatronics Engineering (Incomplete)

SELECTED PROJECTS

Lazeryeri **B2B**

lazeryeri.com

Next.js · TypeScript · Supabase · iyzico · Three.js

DWG file analysis with automated pricing engine for the laser cutting industry.

Artilex Platform **TÜBİTAK**

Next.js · Appwrite · Gemini AI · Trendyol API

Gemini AI-powered product description and category optimization platform for e-commerce sellers.

Kocaeli AI Reporting Tool **MUNICIPALITY**

Python · FastAPI · React · Qwen3.5-27B

Local LLM-based smart data reporting tool for Kocaeli Metropolitan Municipality's internal systems.

Candor Car Rental

candorrental.com

Next.js · SQLite · Docker

Multi-language (TR/EN/MK/SQ) car rental platform for a North Macedonia-based company.

Autoservice Bosphorus

autoservice-bosphorus.de

Next.js · TypeScript · Google Calendar API

German corporate website for a 15+ year KFZ auto service shop in Berlin Mariendorf.

TECHNICAL SKILLS

Frontend	TypeScript, JavaScript, Next.js, React, Tailwind CSS, Framer Motion
Backend	Node.js, FastAPI, Python, REST APIs, WebSockets
AI / LLM	Gemini AI, Qwen3.5, Ollama, RAG pipelines, Prompt Engineering, ChromaDB
Database	Supabase, PostgreSQL, SQLite, Redis
Tooling	Docker, Git, GitHub Actions, CI/CD, Cloudflare, Vercel, Linux VPS
Hardware	ESP32, KNX Protocol, PCB Design, Embedded C++

INTELLECTUAL PROPERTY

TW S-BMS — Modular High-Voltage Isolated Battery Management System PATENT PENDING

Power systems startup project — TW Power Mühendislik

- 3000V galvanic isolation with $\pm 5\text{mV}$ precision active cell balancing and mobile app remote monitoring.
- Scalable to 250+ series connections with isolated I2C at 99.9% accuracy.
- Designed for energy storage, electric mobility, and renewable energy applications.

CERTIFICATIONS

Embedded Systems Developer Certificate

Softito — Istanbul Chamber of Commerce · 320h (ESP32, PCB Design, Linux)

KNX ETS eCampus Certificate

KNX Association

Sep 2023

KNX Secure Installation Certificate

KNX Association

Sep 2023

Introduction to Big Data / Information Technologies

BTK Academy

Jul 2023

VOLUNTEERING & LEADERSHIP

IEEE KOU Student Branch

Technical Projects Coordinator — managed competition teams across national initiatives

2024–2025

IEEE KOU TECHNIC

Team Captain — 17-person autonomous UAV team (Teknofest, METU VTOL)

2022–2025

IEEE KOU AESS

Social Media Responsible — organized "Defense Summit" with 500+ attendees

2021–2022

LANGUAGES

Turkish

Native

English

Upper-Intermediate (B2)

German

Beginner (A1)