

TheTechTive

Engineering my way into robotics.

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PROFILE

Self-directed learner building toward a career in robotics and automation engineering, with a concrete goal of a German Ausbildung as Mechatroniker/in or Elektroniker für Automatisierungstechnik (target start: August–October 2027). Combines hands-on embedded systems and electronics practice with active German-language acquisition (B2 target: December 2026) and freelance web development / systems work. Documents all technical work publicly as a demonstrated proof of consistency and problem-solving process.

EDUCATION & TARGET PROGRAM

Ausbildung — Mechatroniker/in (primary) / Elektroniker für Automatisierungstechnik (secondary)

Target application window: August – October 2027 · Germany

Self-directed technical curriculum

C → C++ → Linux fundamentals → Python → STM32 bare-metal programming, alongside applied electronics (sensors, analog signal chains, ESP32 development).

TECHNICAL SKILLS

Programming	C, C++, Python, TypeScript, JavaScript
Embedded / Electronics	ESP32, Arduino, breadboard prototyping, analog sensing, ADC/signal filtering
Web Development	Next.js, React, HTML/CSS, Git
Tools	VS Code, Git/GitHub, Notion, Make.com (automation pipelines)
Languages	English (fluent), German (progressing toward B2), Persian (native)

PROJECTS

ESP32 Sensor Rig — Active

Ground-up analog sensor pipeline on ESP32: multi-sensor voltage-divider circuits, 12-bit ADC handling, software-side noise filtering, CSV serial data streaming.

Catchbox — Active

Solo Android-first quick-capture SaaS app with routing to Notion, Trello, and Telegram. Owned product design, pricing strategy, and API integration end-to-end.

FREELANCE / INDEPENDENT WORK

Systems & Web Development — Independent

Notion-based systems architecture for clients; web development projects; built an AI-assisted German-learning content pipeline (Make.com) generating contextual study material from structured vocabulary lists.

ACHIEVEMENTS

- Designed and maintain a public engineering notebook (this site) documenting all technical learning in the open.
- Built a structured 163-day German study plan (A1 → B2) with measurable weekly milestones.
- Built a working AI content-generation pipeline for language learning materials.