

Alphan Özcan

AI/ML Developer & Entrepreneur

İzmir, Türkiye | alphanozcan@gmail.com | linkedin.com/in/alphanözcan-38a5a120b | alphan.gen.tr

EDUCATION

Bahçeşehir High School for Science and Technology İzmir, Türkiye

High School Diploma (Expected) Sep 2022 – Jun 2027

Relevant Coursework: AP Physics 1, AP Physics C: Mechanics, AP Statistics, AP Calculus BC, AP Computer Science A, Biology, History, English

ACADEMIC ACHIEVEMENTS & TEST SCORES

SAT (Oct 2026): 1390 / 1600

TOEFL iBT (2026): Reading 5.0 | Listening 6.0 | Writing 5.5 | Speaking 4.0

AP Exams (2026): Computer Science A (5), Physics C: Mechanics (5), Physics 1 (5), Calculus BC (4; AB subscore 5), Statistics (4), Physics C: Electricity & Magnetism (3)

TECHNICAL SKILLS & LANGUAGES

Areas of Expertise: Python, Go, Swift (iOS), Java, JavaScript / HTML / CSS, PyTorch & Applied AI/ML, Product Management

Languages: Turkish (Native), English (Advanced), German (Elementary)

EXPERIENCE

HubX AI Lab Urla, İzmir, Türkiye

Machine Learning Intern Nov 2025 (1 month)

Tech Stack: Python, Segment Anything Model (SAM)

- Interned at HubX, a Turkish unicorn startup building AI-driven mobile products for a global user base.
- Applied zero-shot segmentation with Meta's Segment Anything Model to isolate primary subjects in video content for a product-facing workflow.
- Gained hands-on experience in model optimization and Python-based video/data analysis within a professional AI R&D environment.

CrasAI İzmir, Türkiye

Cofounder & Backend/AI Systems Developer Jul 2025 – Feb 2026

Tech Stack: Go, Python, LLM APIs, Multi-Model Orchestration

- Cofounded and engineered the backend for CrasAI (crasai.com), a multi-model AI platform unifying text, image-generation, and data-processing tools in a single interface.
- Designed a Go-based backend with an original automatic model-selection algorithm that routes each request to the fastest, most suitable underlying AI model.
- Built the LLM routing and orchestration layer from scratch, combining product thinking with system-level AI architecture decisions.

Drape İzmir, Türkiye

Cofounder & CPO (iOS/AI Development) Mar 2026 – Apr 2026

Tech Stack: Swift, iOS, AI Integration

- Cofounded an AI-native mobile app studio and led product direction for its first release, a virtual try-on outfit app.
- Built AI features and core application logic in Swift, working across both the product and technical construction of the app.

Cardo Digital Business Cards İzmir, Türkiye

Founder Nov 2025 – Mar 2026 (5 months)

Tech Stack: NFC, QR, Web

- Founded Cardo (cardo.net.tr), a digital-networking platform converting traditional business cards into interactive, eco-friendly NFC/QR digital profiles.
- Designed the end-to-end user experience enabling professionals to share credentials instantly.

Delfine İzmir, Türkiye

Backend Developer Sep 2025 – Feb 2026

Tech Stack: Python, VirusTotal API, GPT-4o, Llama 3, AES-256

- Designed and maintained backend architecture for the Delfine security toolkit, with a focus on security-driven API integrations and data privacy.
- Integrated the VirusTotal API for real-time malware detection and orchestrated GPT-4o and Llama 3 deployments for automated security analysis.
- Engineered AES-256 encryption and metadata-scrubbing features, and optimized backend workflows for the Phishing and Cookie Policy Analyzer modules.

Today The 50th İzmir, Türkiye

Senior Web Developer Mar 2023 – Jun 2025 (2 years 4 months)

Tech Stack: HTML, CSS, JavaScript

- Developed and maintained web platforms as senior developer for over two years alongside a full-time academic workload, demonstrating sustained technical responsibility.

PROJECTS & AWARDS

TÜBİTAK 2204-A | Multi-Purpose Analysis System for Marine Ecosystem 2nd Place — İzmir Region

Tech Stack: Python, YOLOv11, Raspberry Pi 5, Google Coral TPU, Edge AI

- Placed 2nd in the İzmir Region at TÜBİTAK 2204-A, one of Turkey's leading high-school research competitions, with a Raspberry Pi 5 + Google Coral TPU underwater edge-AI system.
- Built a single-architecture Edge AI pipeline (YOLOv11, INT8 quantization) to detect mucilage, ghost nets, marine litter, and invasive species in real time without cloud dependency, achieving ~15–30 ms/frame (30–60 FPS).
- Led AI model training and edge-device optimization/quantization; the system deploys via a single PoE cable directly into the sea.

A Voice for Animals International Essay Contest | "Silent Invaders" 2nd Place — 16–18 Written Essay Category

- Won 2nd place in the 16–18-year-old Written Essay category of the 2026 A Voice for Animals Contest, a global competition organized by the Animal Welfare Institute (AWI) in partnership with the Humane Education Network.
- Wrote "Silent Invaders: How the Mediterranean's Underwater Crisis Is Erasing an Ancient Sea," examining how the Suez Canal's expansion, rising sea temperatures, and climate change are accelerating the spread of invasive species across the Mediterranean and threatening its biodiversity, fisheries, and coastal communities — extending the marine-ecosystem research thread from the TÜBİTAK 2204-A project above.

Diamond Challenge | FarmerAI 1st Place — Athens Regional, Global Finalist

Tech Stack: ESP32 (IoT), NASA POWER API, Gemini

- Won 1st place at the Diamond Challenge Athens round with FarmerAI, an ESP32-based smart-irrigation system, advancing to the Global Finals.
- Combined IoT sensor hardware, NASA POWER climate-data integration, and Gemini-based plant-disease detection into one deployable product.
- Pitched and defended the venture before an international panel of expert judges.

TEKNOFEST | Robotaksi — Binek Otonom Araç Yarışması 3rd Place — Turkey, Mansiyon Award

Tech Stack: Autonomous Driving, Computer Vision, Sensor Fusion

- Qualified for the national testing round as one of 19 teams selected from 568 teams and 2,274 competitors nationwide.
- Advanced to the final race as one of 7 teams to pass the safety tests, competing as "Virtual Velocity" — one of only 3 high-school teams accepted in a field dominated by university teams.
- Won 3rd place in Turkey and a Mansiyon (honorable mention) award — the first high-school team ever to place and win an award in this competition.

TEKNOFEST | AI in Healthcare Competition 4th in Turkey (current cycle), 5th in Turkey (previous cycle)

Tech Stack: Python, YOLO, Medical Imaging

- Ranked 4th nationally among ~15,000 teams for cardiomegaly detection from chest X-rays, calculating the cardio-thoracic ratio.
- Ranked 5th nationally among ~20,000 teams the previous year for BI-RADS mammography classification.
- Currently developing ECG-signal classification, extending the research pipeline to a third medical imaging modality.

World Robot Olympiad | Earthquake Rescue Wristband 1st Place — Turkey (Future Inventors)

Tech Stack: Embedded Systems, Wireless Communication

- Won 1st place in Turkey in the Future Inventors category with a smart earthquake-rescue bracelet that transmits pulse and location data from trapped survivors when GSM networks are unavailable.

World Robot Olympiad | Future Engineers — Autonomous Robot 2nd Place — Turkey

Tech Stack: Computer Vision, Autonomous Driving, Mechanical Design, Electronics

- Built a competition-ready autonomous robot as part of Team CYBERRCORE, integrating mechanical design, electronics, computer vision, and autonomous-driving software within a compressed development timeline.
- Placed 2nd in Turkey in the WRO 2026 Future Engineers category, a separate track from the Future Inventors win above.
- Represented Turkey as the national runner-up at the WRO 2026 Open Championship Europe in Zagreb, Croatia (Oct 13–16, 2026).

TEKNOFEST | Flying Car Simulation National Finalist

Tech Stack: Simulation, Robotics

- Reached the national finals of the Flying Car Simulation Competition at TEKNOFEST Cyprus after months of team development and testing.

NASA Space Apps Challenge 3rd Place — İzmir

Tech Stack: Go, REST APIs, Earth Observation Data

- Won 3rd place in İzmir at the global NASA-affiliated hackathon, building Go-based backend services and data pipelines for Earth-observation analysis.

Code Night İzmir (İYTE Yazılım × ParibuHub) | Crypto Trading Bot 2nd Place

Tech Stack: Pine Script, TradingView

- Placed 2nd as the only high-school team in the competition, building an autonomous crypto trading bot in a single hackathon sprint against university-level teams.

Conrad Challenge Two-Time Innovator

- Developed and pitched tech-driven solutions across two consecutive years in this NASA-affiliated STEM entrepreneurship challenge.

LEADERSHIP & VOLUNTEERING

FRC Team 6429 | 4th Dimension İzmir, Türkiye

Engineering Projects Sub-Team Lead & Senior Java Programmer Jan 2023 – Jul 2025

Tech Stack: Java

- Progressed from Software Intern to Engineering Projects Lead, developing Java-based autonomous and teleop robot control software and leading the Poseidon project.
- Managed a 4-person Engineering Projects team as it won the Engineering Inspiration Award at the FIRST Championship (Galileo Division), along with the Team Sustainability Award and Regional FIRST Impact Award at Haliç Regional.
- Led social-impact initiatives reaching roughly 4 million people over 3 years, including the Ask4ward AI chatbot that helped other FRC teams write award essays, STEM outreach to underprivileged schools and elderly care homes (7'den 77'ye STEM), the 4D Exhibit student-art showcase, and the 4Dathon student hackathon.

ÇiçekliAI İzmir, Türkiye

Community Co-Lead / Instructor / R&D Lead Since late 2022

- Help lead ÇiçekliAI, one of Turkey's first high-school-level AI communities, delivering AI instruction to roughly 30–35 students annually.
- Took over community leadership with a co-lead after the founder's departure, sustaining and growing the program.
- Direct R&D initiatives including a university-essay-grading tool, and prepare students for the TEKNOFEST AI in Healthcare competition.

EMT Projects İzmir, Türkiye

Electronics & Coding Member / IT Manager Since Sep 2024

- Manage IT infrastructure and lead electronics and coding projects for a school-based engineering initiative, spanning both software and hardware/operations.

EF Education First İzmir, Türkiye

Student Ambassador Sep 2025 – Mar 2026

- Represented EF Education First, promoting international education programs to peers.

CERTIFICATES & TRAINING

- Claude Code in Action
- YGA Summit 2025 — Participant Certificate
- YGA'24 Summit — Participant Certificate
- Blue Ocean Student Entrepreneurs Mini-Course
- Equalize The Future — Young Entrepreneurs Idea Marathon (Bootcamp)
- Europe Coding School — Artificial Intelligence & Data Science Specialist (Jun 2026)
- Europe Coding School — Certificate of Excellence, Technical Assessment (Jun 2026)

REFERENCES

Dr. Mehmet Kurt Assistant Professor @ İSTUN

Code Night İzmir — Mentor mehmet.kurt@gmail.com