Ahmet Doruk Gonulal

Izmir, Turkiye | +90-553-981-4739 | dorukgonulal@outlook.com | LinkedIn | GitHub

EDUCATION

Izmir Bahcesehir College 50th Year Science and Technology High School *2023 – 2027*

Cumulative Turkish MEB Science High School GPA: 97.226/100 Izmir, Turkiye

Expected Graduation: June 2027

SAT: 1530 (EBRW: 740, MATH: 790)

Coursework (through independent study): AP Calculus BC, AP Physics C: Mechanics, AP Physics C: E&M, AP Computer Science A, AP Physics 1, AP Microeconomics, AP Macroeconomics

LANGUAGES

Turkish *(Native Speaker)*

English *(Professional Working Proficiency, IELTS Academic: 7.5)*

HONORS & AWARDS

National AI Team Selection, Team Turkiye *2026*

European Olympiad in Artificial Intelligence (EUROAI/CEOAI)

Impact Award, Halic Regional *2026*

FIRST Robotics Competition (FRC)

3rd Place National Round, Startup Competition *2026*

TigerLaunch (Princeton University Entrepreneurship Club)

Engineering Inspiration Award sponsored by SpaceX, World Championship *2025, 2026*

FIRST Robotics Competition (FRC)

Top 10% National, Informatics and Computational Thinking *2026*

BEBRAS – Bilge Kunduz

3rd Place National Winner, Full-Scale Autonomous Passenger Vehicle Competition *2025*

TEKNOFEST (World's Largest Tech Festival)

4th Place National Round, AI in Healthcare *2025*

TEKNOFEST (World's Largest Tech Festival)

6th Place National Round, Flying Car Simulation Competition *2025*

TEKNOFEST (World's Largest Tech Festival)

National Finalist, Young Entrepreneurs Idea Marathon *2025*

UNICEF & Habitat Association

National Finalist, Climate Change High School Research Competition *2025*

TUBITAK 2204-D (NSF Equivalent)

1st Place Worldwide, Senior Coding Contests *2024*

Caribou Contests

2nd Place Regional, Space Apps Challenge *2024*

NASA

3rd Place National, Future Engineers Category *2024*

World Robot Olympiad (WRO)

EXPERIENCE

Kedy Technologies *January 2026 - Present*

Co-Founder, CEO

• Co-founded Kedy, developing domain-specific small language models (SLMs) and resource-efficient AI infrastructure for enterprise applications.

• Led end-to-end development of 3 AI models and 7 developer tools, covering pre-training, fine-tuning, evaluation, and deployment.

• Engaged with 2 prospective enterprise customers to identify AI deployment requirements and validate product use cases.

FRC Team 6429 – 4th Dimension *July 2024 – Present*

Junior Programmer, Robot Driver, Electronics and Programming Lead

• Led robot software and electronics development for a competitive FRC team, implementing Java-based swerve drive control, autonomous routines, and vision-assisted localization.

• Integrated Limelight 4, Pigeon2, and PathPlanner to support autonomous positioning, trajectory execution, and real-time robot navigation.

• Developed 32 autonomous routines and contributed to 3 competition-ready robot systems across 3 FRC seasons.

CicekliAI Community *September 2023 – Present*

Director, Education Committee President

• Led a 10-member education team, overseeing the development and delivery of 15+ AI education modules and 100+ hours of instructional content.

• Designed and delivered AI and machine learning courses covering Python, computer vision, neural networks, and applied AI for 150 students.

• Mentored student teams in developing AI-based projects and preparing for national technology competitions, including TEKNOFEST.

HolomAI *August 2025 – January 2026*

Co-Founder, Chief AI Researcher

• Co-founded an AI-powered engineering platform integrating CAD generation, bill of materials (BOM) creation, and software development through a unified natural-language interface.

• Developed 3 autonomous AI agents for engineering workflows, automating 3 stages of the product design and development process.

• Implemented AI-driven component selection and CAD generation pipelines, generating 120+ engineering prototypes from natural-language specifications.

Today The 50th *September 2023 – August 2025*

Senior Web Developer

• Led web development for Today The 50th, a student-run publication and blog at Bahcesehir High School for Science and Technology.

• Managed website features and technical infrastructure to support the publication of student-written articles and digital content.

RESEARCH

AI-Based Underwater Invasive Species Detection *2025*

Independent Researcher TUBITAK 2204-D

• Investigated computer vision-based approaches for detecting invasive marine species, including lionfish, to support marine biodiversity monitoring.

• Developed an AI-powered underwater monitoring module integrating image acquisition and automated species detection.

• Evaluated 3 detection models on 3,500 underwater images, achieving 93% precision and 91.3% recall.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, Swift, JavaScript

AI & Machine Learning: PyTorch, Hugging Face Transformers, Computer Vision, Natural Language Processing (NLP), Deep Learning, LLM Fine-Tuning

Robotics & Autonomous Systems: ROS 2, WPILib, PathPlanner, Limelight Vision, LiDAR, Autonomous Navigation

Tools & Frameworks: Git, GitHub, Linux, FastAPI, Ollama, Xcode