

# UMUT KEREM ÖZEN

Antalya, Türkiye · +90 539 930 3926  
umutkeremozen@gmail.com · linkedin.com/in/umutkerem · 1337.bio/umut

Founder and researcher focused on Advanced Brain Interfaces (ABI), utilizing EEG, fMRI, and deep learning for neural data analysis. Experienced in aerospace avionics, AI engineering, and organizational leadership, with a strong commitment to decoding human cognition and developing ethics-first defense technologies.

## EDUCATION

<b>Antalya Akant College</b> High School Diploma	Aug 2025 – June 2026 Antalya, Türkiye
<b>Adem Tolunay Anatolian High School (ATAL)</b> High School Diploma	Aug 2023 – June 2025 Antalya, Türkiye
<b>TUBITAK Science High School (TFL)</b> High School Diploma	Sept 2021 – June 2023 Gebze, Kocaeli
<b>Antalya Science and Art Center (BİLSEM)</b> Gifted and Talented Education (GATE) - General Cognitive Skills	Sept 2015 – June 2026 Antalya, Türkiye

## PROFESSIONAL & RESEARCH EXPERIENCE

<b>SINAPSIS ABIS</b> Co-Founder	June 2023 – Present Antalya, Türkiye
------------------------------------	---

- Spearheading R&D for Advanced Brain Interfaces (ABI), focusing on the backend analyzability and interpretability of human cognition and intelligence.
- Researching neural data analysis utilizing EEG, NIRS, fMRI, MEG, and ECOG.
- Implementing deep learning and Natural Language Processing (NLP) models for advanced neuro-signal interpretation.

<b>Imperial Tech</b> Founding President	Jan 2025 – Present Remote
--	------------------------------

- Leading an aerospace and defense startup rooted in an ethics-first doctrine.
- Overseeing advanced manufacturing and R&D for the industrial-military complex, prioritizing ethical deployment of defense technologies.

<b>SBÜ Antalya Education and Research Hospital</b> Young Researcher	Jan 2024 – Present Antalya, Türkiye
--	--

- Conducting advanced clinical research focused on Brain-Computer Interfaces alongside medical professionals.

<b>Piyonist</b> AI Engineer	March 2025 – Aug 2025 Remote
--------------------------------	---------------------------------

- Developed a Turkish chess engine and AI coach in cooperation with the Ministry of National Education and the Turkish Chess Federation.

<b>AU UBT HS Rocket Team</b> Software & Avionics Lead	Oct 2023 – March 2024 Antalya, Türkiye
--	---

- Directed software and avionics teams for the *Akdeniz-1* rocket; established team goals and accelerated member onboarding.
- Implemented PID control systems and Kalman Filters for flight stability, and managed LoRa-based telemetry systems.

<b>TÜBİTAK RUTE</b> Engineering Intern	March 2023 – June 2023 Gebze, Kocaeli
---	--

- Supported the integration of the M11 Metro (Gayrettepe – Istanbul Airport) to the YERLISINYAL Administration System.
- Focused on safety-critical systems and quality assurance protocols.

### **TFLight**

Nov 2021 – June 2022

*Aerodynamics Team Lead*

Gebze, Kocaeli

- Led the aerodynamics team for the 2021–22 TEKNOFEST Fixed Wing UAV Competition.
- Executed aerodynamic simulations using Ansys Fluent, MATLAB, and XFLR5, and structural simulations via ANSYS Workbench and SolidWorks.

## **LEADERSHIP & ACTIVITIES**

---

### **Future Impaction (Gelecek İçin Etki)**

March 2026 – Present

*Executive Board Member; Head of Project Team*

- Coordinating the *Youth That Leads the Future* webinar series and facilitating workshops on CV development and networking.

### **YouthSpark**

March 2025 – Present

*Head of R&D; Core Team Member*

- Directing R&D initiatives and serving as Project Coordinator and Moderator for the Winter Camp Webinar Program.

### **1337.bio**

Feb 2026 – Present

*Head of Marketing*

- Directing marketing strategy and user acquisition for a closed-beta platform.

### **ISOS Journal (In the Shadow of Science)**

Dec 2021 – March 2022

*Graphic Editor*

- Designed and edited graphics for the inaugural issue of the scientific magazine of TÜBİTAK Science High School.

## **HONORS & AWARDS**

---

- **1st Place (Software)**, 56th TÜBİTAK National 2204-A Research Projects Competition
- **TÜBİTAK 2232 Scholar**, Under the International Fellowship for Outstanding Researchers program
- **Finalist**, 55th TÜBİTAK National 2204-A Research Projects Competition
- **Awardee**, 14th TÜBİTAK 2204-B Middle School Research Projects Competition

## **SKILLS & CERTIFICATIONS**

---

**Technical:** Python, Machine Learning (Akbank Bootcamp), AWS, ANSYS Workbench, MATLAB, SolidWorks.

**Certifications:** EF Standard English Test (C2 - Proficient), AWS Cloud Foundations, Introduction to Python.

**Languages:** Turkish (Native), English (Full Professional), German (Professional Working), Italian, Russian, Polish (Elementary).