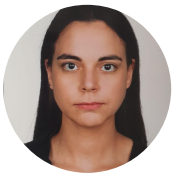
İrem Özkan

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WORK EXPERIENCE

Feb 2026 – Jun 2026 — **Undergraduate Teaching Assistant, Izmir University of Economics**
- Supported lab sessions for undergraduate electrical and electronics courses.
- Helped students with circuit analysis, measurements, and troubleshooting.
- Answered student questions on lab procedures and key course topics.

Aug 2025 – Sep 2025 — **Engineering Intern, T.C. Ulaştırma ve Altyapı Bakanlığı**
- Observed transformer and panel systems in the field.
- Learned basic layouts of distribution equipment and substation structures.

Jun 2025 – Jul 2025 — **Antenna Design Engineer Intern, ASELSAN**
- Learned radar systems and antenna theory fundamentals from engineers.
- Analyzed antenna radiation performance using MATLAB and CST Studio Suite.

Oct 2024 – Dec 2024 — **Volunteer Mentor, Izmir University of Economics**
- Helped incoming students get oriented and familiar with the university.
- Organized events and meetings as part of the mentoring program.

EDUCATION

2022 – 2026 — **B.Sc. in Electrical and Electronics Engineering, Izmir University of Economics, Faculty of Engineering**
- GPA: 3.56 / 4.00
- Graduated 1st in the department
- 100% scholarship recipient

PROJECTS

Jun 2026 – Present — **CareRAG: AI-Powered Decision Support System for Home Care Personnel**
- Built a Retrieval-Augmented Generation (RAG) based decision-support system for home care personnel.
- Implemented role-based access control to ensure secure and reliable use of healthcare information.

Dec 2025 – Present — **DGS-Based Ultra-Wideband Antenna Array for LTE/WiFi/5G Beam Steering**
- Designed an S-band ultra-wideband antenna array using Defected Ground Structure (DGS) for directional communication.
- Published as a peer-reviewed conference paper at ICEEE 2026.

Sep 2024 – Present — **High-Resolution Image Enhancement for Improved OCR Accuracy**
- Improved OCR accuracy by applying image super-resolution and enhancement techniques in MATLAB prior to text extraction.

SKILLS

Technical — MATLAB (Beginner) • CST Studio Suite (Experienced) • OrCAD/PSpice (Beginner) • Python (Beginner) • Java (Beginner) • KiCad (Beginner) • Circuit Analysis (Beginner) • Antenna Design (Beginner) • RAG (Retrieval-Augmented Generation) (Beginner) • C++ (Beginner)

PUBLICATIONS

I. Ozkan, M. C. Ergun, A. M. M. A. Allam, and D. E. Fawzy, "Development of a DGS-based ultra-wide band antenna array for LTE, WiFi, and 5G beam steering applications," in 2026 13th International Conference on Electrical and Electronics Engineering (ICEEE), Antalya, Turkiye, 2026, doi: 10.1109/ICEEE69936.2026.11598361.

CERTIFICATES

May 2025 – Present — **IUE PowerPath Micro-Credential - Izmir University of Economics, May 2025**

Dec 2024 – Present — **Mentoring Volunteer Certificate - Izmir University of Economics, Dec 2024**

Nov 2024 – Present — **Yapay Zeka Uzmanlık Programı (AI Specialization Program) - Milli Teknoloji Akademisi, Nov 2024**

Nov 2024 – Present — **Signal Generation and Resampling - MathWorks, Nov 2024**

Oct 2024 – Present — **MATLAB Onramp - MathWorks, Oct 2024**

EXTRACURRICULAR

Nov 2022 – May 2024 — **Vice President of Sponsorship, IEEE Club**
- Arranged sponsorships with companies and organizations via email and phone to support club events.
- Continued as an active club member after completing the sponsorship role.

LANGUAGES

English	Advanced	Turkish	Native speaker
German	Elementary		

HOBBIES

Former professional volleyball player (4 years); currently plays at an amateur level.