

DEMİR AKIN

Electrical & Electronics Engineering Student — Koç University

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SUMMARY

Third-year Electrical and Electronics Engineering student at Koç University with hands-on experience in control and automation systems, embedded engineering, and digital communications. Currently interning at Kale Jet Motorları, contributing to simulation and reliability work on engine control systems. Seeking to apply technical and analytical skills in aerospace and defense engineering projects.

EDUCATION

Koç University — B.Sc. Electrical & Electronics Engineering (English)

Sept 2023 – Present

Sarıyer, İstanbul · Expected Graduation 2027 · GPA: 2.70 / 4.00

Relevant Coursework: Communication Systems, Control Systems, Signals & Systems, Programming for Engineers, Introduction to Machine Learning, Programming with Python.

EXPERIENCE

Engineering Intern — Kale Jet Motorları (KvA Software Design Directorate)

Jun 2026 – Present

Pendik, İstanbul

- Participate in control and automation engineering work, with hands-on exposure to the simulation and reliability testing of engine control units (ECU) and related subsystems under defined operating conditions.
- Developed a Python (Tesseract OCR) image-processing tool to digitize engineering training materials.

Social Media & Process Development Assistant — ARDES YAPI İş Ortaklığı

Apr 2023 – Present

Merkez, Çanakkale

- Managed the company's social media presence and digital content.
- Applied AI tools to improve management and personnel-tracking processes; streamlined content creation and reporting workflows.

PROJECTS

SDR-Based QPSK Wireless Data Transmission — Communications Lab

- Designed and implemented a QPSK wireless link using USRP B210 and GNU Radio; performed BER analysis and channel equalization.

Quantum Computing — Grover's Algorithm (Qiskit)

- Implemented and simulated Grover's search algorithm in Qiskit and documented the results in a technical report.

AI-Based Visual Defect Detection — Research / Coursework

- Studied computer-vision and machine-learning approaches for identifying product anomalies in automated production lines.

SKILLS

Programming: Python, C/C++, MATLAB, SQL

Tools & Domains: GNU Radio / SDR, Control Systems, Computer Vision, Qiskit

Languages: Turkish (Native), English (B2)

INTERESTS

American Football — Koç University team (3 years).