

# Ezgi EKINCI

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As a dedicated engineering student, I possess a strong sense of responsibility and a high level of adaptability. I am eager to learning and self-improvement, and I approach new challenges with focus and openness. My ability to quickly comprehend complex concepts enables me to contribute effectively in collaborative and fast-paced environments.

## Education

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2021–current **B.Sc. Control & Automation Engineering, Istanbul Technical University**  
Expected Graduation: June 2026

## Experience

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2025 Nov - 2026 Jan



*ABB, Istanbul*

**Motion Business Intern** Conducted competitive and market analyses within ABB Motion Business to evaluate product positioning, pricing, and technical differentiation of motor and drive solutions. Analyzed the technical and operational needs of the sales team to support customer-focused solution development. Gained hands-on exposure to industrial automation systems, electric motors, and drive technologies, strengthening the link between technical knowledge and commercial strategy.

2025 July - August



*CSCRS, Istanbul*

**Deep Learning Intern** Collaborated with a teammate to explore research topics combining deep learning and remote sensing. Conducted a literature review on wildfire risk prediction, focusing on satellite image-based analysis. Decided to integrate deep learning models with geospatial wildfire prediction approaches, continuing with deeper reading and data preparation for implementation. The internship laid the groundwork for developing a practical, fire risk assessment model using remote sensing data and deep neural architectures.

2024 July - August



*Sensemore, Istanbul*

**Machine Health Monitoring Intern** Analyzed vibration-sensor data to identify electrical and mechanical faults in industrial machinery using Fast Fourier Transform-based signal processing. Developed and implemented Python algorithms leveraging NumPy and SciPy to support robust fault-detection and predictive maintenance models.

2024 November



*Personal Project*

**Game Developer** Implemented a 2D side-scrolling game in Python using Pygame, integrating object-oriented architecture, real-time collision detection, timed obstacle generation, and user input-driven event handling for interactive progression.

2023 May - October



*UZMAR ATeam, ITU Electrical Machines Laboratory*

**Software Developer** Integrated real-time pose estimation from /nav/pose with generalized-force actuation to navigate an autonomous marine vessel toward specified waypoints. Tuned proportional distance and steering control gains within the ROS control loop to optimize trajectory smoothness and maintain heading stability under varying sea conditions. Evaluated navigation performance through trajectory-tracking trials, quantifying positional accuracy and steady-state error.

## Computer Skills

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**Advanced Knowledge:** Python, MATLAB

**Basic Knowledge:** C, ROS, Arduino

## Language Skills

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**Turkish:** Native    **English:** B2

**Finnish:** A1

## Interests

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**Cognitive Science & UX** Passionate about the intersection of cognitive science and UX, focusing on how evidence-based psychological principles can be applied to create more intuitive and human-centric intelligent systems.

**Orienteering, Competitive Athletics** Member of the school orienteering team, honing map-reading and endurance skills through regional navigation events. Licensed athlete with experience in country-wide competitions.

**Scuba Diving** PADI Autonomous Diver certified (ISO 24801-2 Level 2), proficient in underwater navigation.