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EDUCATION

Istanbul Technical University, Control and Automation Engineering 2022 –

University of Kassel, Germany, Erasmus Exchange Program 04.2025-09.2025

Hüseyin Avni Sözen Anadolu Lisesi, İstanbul 2017-2022

EXPERIENCE

Machine Learning Researcher

University of Kassel /Germany (May 2025 – September 2025)

- Conducted research on ensemble learning techniques and machine learning model tuning.
- Worked on a powerful server PC to run computational experiments.
- Contributed to a paper based on the research results.

Autonomous Robot Developer

Machine Arge, Yıldız Teknopark (June 2024 – March 2025)

- Developed embedded systems for STM32-based microcontrollers and autonomous algorithms using **ROS**.
- Implemented technologies such as **Intel RealSense camera**, **visual odometry**, **GPS-IMU**, and **path planning** for precise localization and navigation.
- Enabled autonomous waypoint navigation to GPS coordinates with obstacle avoidance capabilities.
- Improved real-time robot performance in perception, decision-making, and motion control.

ROS Team Member

ITU Autabee (September 2022 – October 2023)

- Collaborated on advanced robotics projects as part of the ITU Autabee team.
- Achievements:
 - Winner of the **2023 NJORD The Autonomous Ship Challenge**.
 - Finalist in the **Teknofest TIK A Competition**

AI Intern

Generion AI (May 2023 – June 2023)

- Worked on **Large Language Models (LLMs)** and AI-powered tools.
 - Gained hands-on experience in developing and optimizing AI-assisted applications and workflows.
 - Contributed to exploring innovative applications of LLMs in real-world scenarios.
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SKILLS

• Programming:

Skilled in Python, C++, and C with solid experience in AI and robotics applications. Proficient in using Python machine learning libraries for developing, optimizing, and tuning models efficiently.

• Robotics & Perception:

Strong knowledge of ROS and computer vision for autonomous systems.

• Simulation & Modeling:

Skilled in using Gazebo and Unity for creating detailed simulations and virtual testing environments.

• Languages

English, German
