

Faig Gafarov

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Computer Vision & AI Engineer with hands-on experience in developing real-time quality control systems and deploying deep learning models in industrial environments. Skilled in Python, OpenCV, and YOLO-based detection pipelines, with additional expertise in data science and PLC integration. Motivated to apply innovative technologies to solve complex real-world challenges.

EDUCATION

Yildiz Technical University

Bachelor's, Mechatronics Engineering

Relevant Coursework: Object-Oriented Programming, Introduction to Artificial Intelligence, Microprocessors and Programming, Industrial Automation, Image Processing
Classification: Graduated with distinction (GPA: 3.1/4)

Istanbul, Turkey

09/2020 – 09/2025

Istanbul University

Associate's degree, Computer Programming

Relevant Coursework: Database Design, Machine Learning

Istanbul, Turkey

WORK EXPERIENCE

Aygaz

AI Engineer Intern

- Built a real-time computer vision QC system with CNNs & YOLOv11 for torn/intact/faded sleeve detection.
- Developed a multi-camera Python/OpenCV pipeline with ROI optimization and real-time inference.
- Integrated with Omron PLCs (FINS/EtherNet/IP) to enable automated rejection and seamless production line control.
- Implemented valve angle detection with a smart vision camera, optimizing lighting and imaging for reliable inspection.

Istanbul, Turkey

07/2025 – 10/2025

C4IR Azerbaijan

AI Engineer Intern

- Developed automated time-series forecasting solutions and data visualization tools, using machine learning models.
- Implemented end-to-end pipelines for data processing, model evaluation, and PDF reporting with customized visual analytics.

Baku, Azerbaijan

04/2025 – 07/2025

DroneX UAV

Software Team Member

- GUI Backend Develop, Contributed to the design interface and development of unmanned aerial vehicles.
- Contributed to a real-time image processing system that classified targets by color (enemy vs. ally units) and triggered corresponding autonomous actions for mission scenarios.
- Achieved 3rd place in Teknofest 2022 UAV Competition and selected as a finalist in Teknofest Azerbaijan with the same team.

Istanbul, Turkey

02/2022 – 08/2022

PROJECTS & OUTSIDE EXPERIENCE

Real-Time Computer Vision System for LPG Cylinder Sleeve Inspection (Aygaz)

07/2025 – 09/2025

- Developed a real-time computer vision system for cylinder sleeve inspection using CNNs and YOLOv11, integrated with Omron PLCs to enable automated quality control on the production line.

Industrial Faulty Product Separation with AI-Based Image Processing Techniques

10/2023 – 05/2024

- Developed an image processing system to automate the separation of fresh and rotten fruits on a conveyor belt using Python and OpenCV, applying pre-trained CNN models with color and texture analysis to ensure real-time, high-accuracy classification.
- [Link To Project](#)

Smart Home System

12/2022 – 01/2023

- Developed a Smart Home System using Flutter Dark Dream for the interface, integrated with PIC hardware, implemented Pultus protocol for communication using Assembly and C, and added Voice Recognition for enhanced user control.
- [Link To Project](#)

SKILLS AND INTERESTS

- Skills: Python, OpenCV, YOLO, CNNs, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, SQL, PLC Communication (Omron FINS/EtherNet/IP), Smart Vision Cameras (Hikrobot SC3000, Omron IV2-G30F), Microcontrollers
- Languages: English - Upper Intermediate, Turkish – Advanced, Russian - Beginner, Azerbaijani – Native
- Interests: Fitness | Cooking | Cycling