

# Bora AKGUL

## Control and Automation Engineer

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### WORK EXPERIENCE

#### Product Manager

Huawei

Istanbul, Turkey

December 2024- On Going

- Led product planning and feature definition for next-generation optical solutions, ensuring alignment between technical capabilities and customer needs.
- Supported the integration of WDM systems with NMS/SDN platforms, contributing to software-defined provisioning and automated performance monitoring.
- Developing on Huawei Cloud using Kubernetes and Docker to enhance cloud-native deployment expertise.

#### MII/DMC Consultant Intern

Solvía Digital Solutions

Istanbul, Turkey

July 2023 – Sep. 2023

- Visualized SCADA data from production lines using Tableau, applying data cleaning techniques with Apache Spark to support big data analytics and operational insights.
- Customized SAP UI5 interfaces to enhance user interaction and improve visualization of manufacturing KPIs,
- Assisted in integrating SAP MII with MES systems to enable real-time production data tracking and digital transformation on the shop floor.

#### Automation Engineer Intern

Schnee Gruppe

Tekirdag, Turkey

July 2023 – Sep. 2023

- Implemented Siemens S7-1200 PLCs and HMI-based automation systems with the German team, enabling real-time control and improving production reliability.
- Customized SCADA interface with Turkish language support to enhance usability and operator response time on the shop floor.
- Assisted in configuring fault detection alarms and visual indicators to improve system diagnostics and reduce manual intervention.

### TECHNICAL SKILLS

**Programming & Scripting:** Python, C#, JavaScript, Node.js, SQL, MATLAB, Bash

**AI & Machine Learning:** Agent-based systems, Retrieval-Augmented Generation (RAG), Face Recognition (OpenCV, Dlib), Model Deployment, TensorFlow

**Web & Software Development:** .NET Core, MERN Stack (MongoDB, Express, React, Node), RESTful APIs, Docker Compose

**Data & Cloud Technologies:** Huawei Cloud, AWS, Docker, Kubernetes, Apache Spark, Tableau, MongoDB, PostgreSQL, MSSQL

**Programming:** C++, C, Python, MATLAB, Simulink

**Project Management:** MS Project, Postman, Jira, Agile, Kanban, Scrum, Git, MLflow

### EDUCATION

#### Yildiz Technical University

B.Sc. Control and Automation Engineering

Istanbul, Turkey

2017 Sept. – 2024 February

Thesis: Autonomous Security Robot

- Designed and built an autonomous mobile robot using face recognition and image processing to detect anomalies such as driver fatigue.
- Integrated ROS with OpenCV, Dlib, and Python for modular, real-time navigation and perception.
- Designed an embedded architecture combining PID motor control, camera input, and decision logic.

## Universität des Saarlandes

B.Sc. in Systems Engineering (Erasmus Exchange)

Saarland, Germany

2022 April – 2022 Dec.

- Engaged in collaborative lab work and mini-projects, enhancing cross-cultural technical communication and system design experience.
- Project-based in systems, embedded programming, and robotics using C++ and MATLAB/Simulink.

## Ebru Nayim Fen Lisesi

2013-2017

High School

## KEY PROJECTS AND LEADERSHIP

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### Autonomous Security Robot, Thesis

Sep. 2023 – Sep. 2024

- Deployed system on Raspberry Pi running Linux enabling edge processing and autonomous control in a lightweight embedded environment with Lidar, image processing and PID controller.

### Parking Management System (.NET Core + SQL Server)

July 2024 – August 2024

- Developed a smart parking system using .NET Core MVC and Entity Framework, featuring dynamic spot allocation, QA-tested workflows, and SQL Server-backend deployment

### MERN Stack eCommerce Platform with Kubernetes

Feb. 2025 – Sep. 2025

- Developed a full-stack eCommerce platform with JWT authentication, Redux, and containerized microservices deployed via Kubernetes. implemented RBAC, dockerized backend/frontend services, and managed MongoDB integration.

*For more details and other projects, visit my [website](#).*

## ACTIVITIES & AWARDS

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### Co-Founder, ITU Darts Club

Istanbul Technical University

ITU, Clubs Union

Nov. 2023

- Founded and organized ITU Darts Club to promote student involvement and community.

### KaggleHousePredict, TOP %1 Award

Kaggle

Kaggle, House Price Prediction Competition

July 2024

- Ranked in the top 4% globally for developing a high-accuracy house price prediction model using ensemble learning techniques.

## SKILLS

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|-----------------------------|---------------------------------|
| • Leadership                | • MLOps & AI Deployment         |
| • Project & Risk Management | • Data Analytics, Visualization |
| • Software Development      | • Testing and Measurement       |
| • Programming               | • Cloud Computing               |

## LANGUAGES & INTERESTS

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**Languages:** Turkish (*native*), English (*fluent, C2*), German (*beginner, A1*)

**Interests:** Violin, Literature & Poetry, Music, Historical Trips

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## COURSES & CERTIFICATES

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|--|------|
| • IBM DevOps and Software Engineering,   | 2025 |
| • AWS Cloud Technical Essential, Amazon Web Services,                                      | 2024 |
| • Unsupervised Learning, Recommenders, Reinforcement Learning, <a href="#">Certificate</a> | 2024 |
| • Advanced Learning Algorithms, <a href="#">Certificate</a>                                | 2024 |
| • Supervised Machine Learning: Regression and Classification, <a href="#">Certificate</a>  | 2023 |
| • QA Test Engineer Bootcamp <a href="#">Certificate</a>                                    | 2023 |
| • IBM Data Science Bootcamp  | 2023 |