# Muhammet Özmen

Software Engineer

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## EXPERIENCE

**Winston Software**                                                        **Feb 2025 – Aug 2025**

*Embedded Systems & Software Intern (Short-Term & Long-Term)*                *İskenderun/Hatay*

Winton Software is a technology company developing innovative solutions for various industries.

***Short-Term Internship* (20 Days)** *:*

- Contributed to the development of an **LLM** based smart home prototype. Focused on communication between **ESP** modules and microcontrollers, as well as environmental testing.
  - Achievements**:** Completed **UART / I2C / GPIO** testing with **ESP** + **Raspberry Pi** integration. Implemented PC and voice-command control through a **Qt** based Python application. Improved debugging efficiency by developing serial communication and logging processes in **Linux**.

***Long-Term Internship (5 Months) :***

- Worked on **LLM** based academic performance analytics and grading automation. Took responsibility for cross-platform interface development, hardware preparation, and **computer vision** integration.
  - Achievements**:** Built backend and frontend automation in **Python** with **Qt** (Widgets/QML), integrated **LLM** APIs with voice command support. Configured **NVIDIA Jetson Nano** in headless Linux mode to enable **OpenCV** based image processing and hardware control.

## EDUCATION

**İskenderun Technical University**                                          **Oct 2021 – Aug 2025**

*B.Sc. in Computer Engineering*                                              *İskenderun/Hatay*

- **GPA:** 3.3/4

## PROJECTS

- **NLP-Based Tourist Attraction Review System** – *Teknofest Finalist*

Developed a rating system analyzing tourist reviews with machine learning.

- **LLM-Based Academic Analytics and Grading Automation –** *Long-Term Internship* 🔗 Link

Implemented an automated student assessment system using OpenAI API and Python for university.

- **LLM-Powered Voice-Controlled Smart Home Electricity System** – *Short-Term Internship*

Designed a voice-enabled home automation system using ESP8266, relay modules, and a Qt-based interface.

- **Gesture-Controlled Robotic Hand with Mediapipe –** *Open Source -* 🔗 Link

Developed a robotic hand with gesture recognition using Mediapipe and Arduino-based servo control.

- **Autonom Turret with Human Detection, Tracking, Elimination** – *Bachelor's Capstone Project -* 🔗 Link

Implemented YOLO-based object detection for target recognition and motor control for automated aiming.

## SKILLS

- **Technical Skills:**
  - **Programming:**
    - Programming Languages: Python (CPython), C/C++
    - Frameworks & Libraries:: Qt (Widgets/QML, PyQt/PySide), OpenCV, TensorFlow
    - Version Control & Environments: Git, headless bash, venv, Linux
  - **Embedded Systems:**
    - Microcontrollers: STM32, Raspberry Pi, NVIDIA Jetson, AVR
    - RTOS & Communication: FreeRTOS, UART/I2C/SPI/GPIO
- **Soft Skills:** Self-learning & adaptability, project management, attention to detail, initiative & accountability, problem-solving under pressure, resource management & efficiency.
- **Languages:** English *(Berlitz Level 5, CEFR B1.1, YÖKDİL 64)*