



# Yunus Emre AKALIN

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## ABOUT ME

Experienced Mechatronics Engineer with a proven track record in **PLC Programming (Siemens TIA Portal)** and **Industrial Computer Vision**. I excel in collaborative environments, bridging the gap between electrical and software teams to ensure project success. Known for a **calm and analytical approach during critical system failures**, I specialize in identifying and resolving complex technical bottlenecks under pressure. As a **German Opportunity Card** holder currently refining my German language skills, I am ready to bring my technical versatility and strong team spirit to an innovative engineering team in Germany.

## WORK EXPERIENCE

**AUTOMATION ENGINEER – ATESCI MACHINERY** – 25/01/2021 – 17/11/2025 – ANKARA, TÜRKIYE

**Automated Quality Control & Vision Systems:** Collaborated with production teams to develop automated QC systems using **C++ and OpenCV**, focusing on reducing defect rates and enhancing precision through proactive technical troubleshooting and innovative algorithm design.

**Hardware Integration & Inspection:** Resolved complex hardware-software integration challenges while deploying **Cognex, Keyence, and Wenglor** cameras; ensured 24/7 reliability of real-time inspection systems in high-pressure production environments.

**PLC Programming & Interface Design:** Engineered robust **Siemens TIA Portal** PLC programs and designed intuitive **HMI/SCADA (WinCC)** interfaces that prioritized operator ease-of-use and rapid fault diagnosis during critical system downtimes.

**Electrical Design & Documentation:** Designed comprehensive electrical schematics in **EPLAN P8**, facilitating seamless communication between design and assembly teams and ensuring 100% compliance with industrial safety standards.

## EDUCATION AND TRAINING

31/07/2016 – 24/01/2021 Afyonkarahisar, Türkiye

**MECHATRONICS ENGINEER** Afyon Kocatepe University

Graduated as a **Mechatronics Engineer** with a strong emphasis on **industrial automation and intelligent systems**. My academic background focused on the synergy between hardware and software, fostering a mindset geared toward **continuous innovation and efficient team collaboration** in technical projects.

**Recognition:** Degree officially recognized in Germany by **ZAB** (Central Office for Foreign Education).

**Thesis:** Development of a real-time Sign Language Recognition system using Computer Vision techniques (**Python, OpenCV**).

**Website** <https://aku.edu.tr> | **Level in EQF** EQF level 6

## LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s): **ENGLISH**