

Aslı Kurt *Hardware Design Engineer*

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🌐 Personal Website 🐙 Github



SKILLS

Altium Designer, LTspice, Proteus, DC-DC converter topologies, VHDL-FPGA, STM32CubeIDE, C, C#, MATLAB, Embedded Systems — Arduino, Raspberry Pi Pico, STM32, AutoCAD, Circuit Design and Simulation, Research and Development

PROFESSIONAL EXPERIENCE

Baykar Technologies

2023 – 2023 | Istanbul, Türkiye

Engineer Intern

- Took an active role in the Production Planning and Process Management Team within the Electronic Manufacturing and Integration Department.
- Designed and developed an Excel VBA interface with 6+ parameters to streamline tracking and planning processes for UAV production.
- Improved production efficiency and error reduction by optimizing workflow management.
- Gained knowledge of proper conduct in UAV production areas, with a focus on ESD, while also acquiring fundamental aviation knowledge.

Anadolu University, Department of Construction and Maintenance

2022 – 2022 | Eskişehir, Türkiye

Engineer Intern

- Analyzed the distribution and management of electrical energy, focusing on efficiency and optimization.
- Conducted research on photovoltaic panel-based projects, exploring renewable energy applications.

1'inci Hava Bakım Müdürlüğü

2022 – 2022 | Eskişehir, Türkiye

Engineer Intern

- Assisted in determining the electrical plan of the facility to optimize factory operations.
- Analyzed various electrical schemes to ensure efficiency and reliability.
- Examined and integrated communication protocols such as **RS-232**, **RS-485**, **RS-422**, and **ARINC-429** for efficient data transmission and system interoperability.

EDUCATION

Gazi University

2025 – present | Ankara, Türkiye

Master's Degree

Electrical and Electronic Engineering
Power Electronics

Eskişehir Osmangazi University

2018 – 2024 | Eskişehir, Türkiye

Bachelor's Degree

Electrical and Electronics Engineering (%100 English Program)
Courses: Power Electronics, Microcomputers, VHDL-FPGA
GPA: 3.18

CERTIFICATES

PCB Design - Life Cycle of an Electronic Board — Designed a PCB for a wireless security detector incorporating motion detection, temperature monitoring, **Wi-Fi** connectivity, and power management, utilizing STM32 control, audio alerts, and **USB** programming functionality.

PCB Design from A to Z with Altium Designer — Developed a PCB integrating STM32 with **I2C** for peripherals (OLED display, voltage and current sensor, accelerometer), incorporating custom reset and **GPIO** functionality, and optimized for noise reduction using decoupling capacitors.

PROJECTS

Mid-Altitude Rocket

2022 – 2023

TEKNOFEST

- Designed an electronic circuit for a mid-altitude rocket, utilizing electrical signals for mission tasks and optimizing data handling with **SPI, I2C, UART**, and **GPIO** interfaces for reliable data transfer and task execution.
- Developed schematics and PCB layouts using **Altium Designer**, and integrated a pressure sensor and an **IMU** sensor to measure **yaw, pitch, roll, speed, and altitude**.

LANGUAGES

English, Deutch, Turkish (native)

ORGANIZATIONS

SARTEK

2022 – 2023

Hardware Designer

- Studied as a Hardware Designer in the Sartek Team for the TEKNOFEST Medium Altitude Rocket Competition (2022-2023).
- Designed and developed electronic hardware to achieve the rocket's mission and performance.

AIESEC

2020 – 2020

AIESEC Marketing Department Team Member

- Joined AIESEC in 2020 and contributed to the Outgoing Global Volunteer and Marketing departments.
- Gained experience in team collaboration, responsibility management, and organizational unity through active participation.

ESOES

2019 – 2022

Sponsorship Department Team Member

- Member of the Engineering Society of Eskişehir (ESOES) since 2019.
- Actively participated in organizing events, including SEN'19 in 2019.

INTERESTS

Camping and Hiking, Painting