Öztuğ Özdemir
Elektric Electronic Engineer

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Experienced and motivated Electric Electronic Engineering graduate with a passion for innovation and problem-solving. Equipped with a strong theoretical foundation and hands-on experience in electrical systems, circuit design, and electronic components. Proven ability to collaborate effectively in team environments, communicate technical concepts clearly, and adapt quickly to new challenges. Eager to leverage skills and knowledge to contribute to dynamic projects and drive advancements in the field of electrical engineering.

Experiences

08.2022-09.2022 **Intern** (20 work day)
TC. Sanayi ve Teknoloji Bakanligi **Balikesir, Turkey**

- Control the elevator distribution board and check for any issues or problems.
- Tests have been carried out to verify if the new electronic devices match their datasheet specifications and to ensure their safety for users.

07.2024-08.2024 **Intern** (30 work day)
Yazaki Systems Technologies (MBC BU) **Bursa, Turkey**

- Designing wire harness for Mercedes Benz Car Business Unit (MBC BU).
- Converting customer drawing style set to Yazaki drawing style set.
- Adjusting the Drawing According to Incoming Customer Requests.
- Full supplier for some model`s wire harness.
- General knowledge and education in Renault, Ford, High Voltage, Jig Board and Holder Design Engineering departments.

05.2025-Present **Site Inspection Engineer**
Ramira **Bursa, Turkey**

- Performed on-site inspections at photovoltaic (PV) power plants, ensuring installation quality, compliance with technical standards, and safety requirements.
- Responsible for factory production inspections, including electroluminescence (EL) testing, flash test (FTR) data analysis, bill of materials (BoM) verification, and visual inspection of solar panels for quality assurance.
- Final inspection and measurement at PV plants, involving site efficiency analysis, thermal imaging, insulation resistance testing, and visual inspections.

Education

09.2019-08.2024 **Faculty of Engineering – Electric Electronic Engineering** **2.65/4.00**
Balikesir University **Balikesir, Turkey**

Skills

- PLC Tia Portal (Intermediate level)
- Etap (Beginner level)
- Arduino (Intermediate level)
- Catia (Beginner level)
- Pic CCS (Beginner level)
- PVSOL, PVSYST (Advanced level)
- Proteus (Intermediate level)
- SolidWorks (Intermediate level)
- AutoCAD (Intermediate level)
- Office programs (Intermediate level)

- Altium (Beginner Level)

Certificates

2021	**Arduino** Altıeylül Halk Eğitimi	**Balikesir, Turkey**
2025	**General Technical and Occupational Health Training** Bilgi Merkezi OSGB	**Bursa,Turkey**
2025	**Working at Heights - Rooftop Acces** Bilgi Merkezi OSGB	**Bursa,Turkey**

Project

1. Controlling the Circular Magnet Array with Arduino

- **Design the Circular Magnet Array:**
  - Create the design for the circular magnet array and draft it using AutoCAD.
- **Implement the Movement Mechanism:**
  - Use a Rack and Pinion mechanism to enable movement of the circular magnet array.
  - Integrate the mechanism with an Arduino to control its movement.

2. Solar Panel Project Calculations

- **Designing Solar Panel Placement:**
  - Use PVSOL and PVSYST software to design the layout and determine the number of solar panels needed.
- **Manual Wattage Calculation:**
  - Calculate the total wattage generated by the solar panels manually.
- **Line Diagram Comparison:**
  - Create a line diagram in ETAP to compare the results with your manual calculations.

3. Magnetic Field Application for Cooling Coil

- Create a magnetic field around a copper coil and reduce the temperature of the coil caused by the magnetic field.
- By creating a magnetic field, the temperature of the copper coil can be reduced by circulating water through the coil.

4. Automation Simulation Project

- Developed a virtual automation project called “Assembler” using Factory I/O and Tia Portal (s7-1500).
- Simulated part alignment and transfer on a conveyor system using basic PLC logic.

Language

- English (B2)