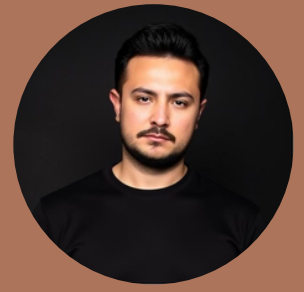


Kadir SOLMAZ

Electrical - Electronic Engineer



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PROFESSIONAL SUMMARY

Results-driven Senior R&D Engineer with 4+ years of experience in electronics design, performance testing, and compliance engineering for white goods and consumer electronics. Proven expertise in ISO 17025 laboratory management, PCB design, FMEA implementation, and EU standards compliance. Strong background in embedded systems development, cross-functional team leadership, and process optimization.

Core Competencies:

Electronics Design | Performance Testing | ISO 17025 | FMEA | PCB Design | Embedded Systems | EU Compliance | Quality Assurance | Project Management | Technical Documentation

WORK EXPERIENCE

Senior R&D Engineer

Smart Kitchen Tasarım, Izmir | Dec 2022 – Present

- Led the electronic system design and architecture for a premium refrigerator project as the System Leader.
- Developed and maintained PFMEA documentation for refrigerator performance and safety test systems (risk prioritization, action follow-up, control verification).
- Conducted energy performance testing of refrigerators in accordance with EU standards.
- Designed, tested, and validated custom PCB solutions for core components (fan, heater, sensor interfaces).
- Managed cross-functional coordination between mechanical, software, and testing teams.
- Oversaw documentation and compliance processes for electrical safety and EMC requirements.

Projects:

- Premium Refrigerator
 - Camera System Integration
 - Electronic Design
 - WireHarness Design
 - Cooling System Design
- Refrigerator Performance Test Room Design
 - Room Electrical Infrastructure Design
 - Heat Distribution Fine Tuning
 - Sensor Table Design

R&D Engineer

Smart Kitchen Tasarım, Izmir | Apr 2021 – Dec 2022

Developed 12W Flyback SMPS (12V/5V) for embedded dishwasher control systems.

Created graphical user interface for automated dishwasher testing, reducing test effort by 50%.

Conducted EU-standard energy and safety performance tests for white goods.

Projects:

- Dishwasher
 - Electronic Design
 - Software Design

Intern – Quality & Production

Volt Elektrik Motorları | Sep 2016 – Dec 2016

- Gained hands-on experience in electric motor quality control and production line monitoring.

EDUCATION

B.Sc. Electrical & Electronics Engineering

Afyon Kocatepe University | Graduation: 2020

TECHNICAL SKILLS

Electronics & Circuit Design

- PCB Design: Altium Designer (advanced), Eagle PCB
- Circuit Simulation: LTSpice, PSIM
- Power Electronics: SMPS design (Flyback topology), AC-DC converters
- Component Selection: MOSFETs, controllers, transformers, passive components

Embedded Systems

- Microcontrollers: STM32 family (STM32F1, STM32F4)
- Programming: C (embedded), Python (automation), Java (basic)
- Communication Protocols: UART, I2C, SPI, Modbus
- Development Tools: STM32CubeIDE, Keil uVision

Testing & Measurement

- Performance Testing: Energy efficiency, cooling performance
- Test Equipment: Oscilloscopes, power analyzers, data acquisition systems, thermal chambers
- Standards: EU Ecodesign regulations, IEC 60335, EN 62552, ISO 17025
- Test Automation: LabVIEW (basic), Python scripting

Quality & Compliance

- Quality Tools: FMEA (Design & Process), 8D Problem Solving, Kaizen, Root Cause Analysis
- Laboratory Management: ISO/IEC 17025 implementation and internal audits
- Regulatory Standards: EU LVD, EMC Directive, RoHS, WEEE, Energy Labeling
- Documentation: Technical specifications, test procedures, validation reports
- Software & Tools
- Office Suite: MS Office (Advanced - Word, Excel, PowerPoint, Visio)
- Project Management: MS Project, Jira (basic)
- Networking: Fortigate Firewall configuration and monitoring

LANGUAGES

- Turkish: Native
- English: Professional Working Proficiency

CERTIFICATIONS

- ISO/IEC 17025 - Laboratory Management Systems | CTR Academy | 2023
- Google Project Management Certificate | Google Career Certificates | 2023
- High Voltage Substation Design | EMO (Chamber of Electrical Engineers) | 2020
- STM32 Embedded Systems Development | Udemy | 2021
- Java Programming Fundamentals | Udemy | 2020