

Özgün Aksüzek

Graz, Styria, Austria
ozgunaksuzek@gmail.com
[linkedin.com/in/ozgun-aksuzek](https://www.linkedin.com/in/ozgun-aksuzek)



Summary

Electronics and embedded systems engineer with 7+ years of professional experience and currently pursuing an M.Sc. in Electronics and Computer Engineering. Strong technical expertise in power electronics, embedded C programming, PCB design, and RF circuit development. Skilled in LTspice simulations, microcontroller-based system integration, and analog/digital circuit design. Certified PMP® and PMI-ACP®, combining engineering knowledge with structured project execution. Currently working on a Master's thesis involving RF receiver design and firmware development.

Projects

DCF-77 Receiver for FMCW Radar (Master's Thesis, ongoing)

- Designed and implemented an RF receiver circuit for the DCF-77 time signal using discrete components (OpAmps and transistors).
- Developed C firmware on MSP430 microcontroller to decode the transmitted 60-bit time information.
- Created PCB design, assembled, and tested the hardware.
- Implemented automatic RTC synchronization for embedded radar systems.

Series Resonant Converter for Galvanic Isolation and Bidirectional Operation (3rd Semester Project)

- Simulated a series resonant converter topology in LTspice.
- Designed transformer using SolidWorks with Litz-wire windings.
- Investigated soft-switching (ZVS/ZCS) vs. hard-switching techniques.
- Built and tested a physical prototype, analyzing performance under multiple load scenarios.

Bidirectional Series Resonant Converter Design and Performance Evaluation

- Modeled and simulated BSRC topology to optimize bidirectional energy transfer.
- Analyzed converter efficiency, switching strategies, and transient responses.
- Documented results and prepared technical reports for academic review.

Experience



Project Manager

Türk Telekom

Jun 2022 - Aug 2023 (1 year 3 months)

- Contributed to system optimization initiatives, reducing operational costs by 20% through improved technical workflows.
- Collaborated with cross-functional engineering teams to integrate telecom network solutions and ensure technical reliability.
- Applied Agile methodologies to coordinate development cycles, ensuring efficient hardware/software integration.
- Performed risk and performance assessments of technical systems, reporting results to senior engineers and stakeholders.



Special Airport System Project Manager

İGA İstanbul Airport

May 2019 - Jun 2022 (3 years 2 months)

- Oversaw integration of mission-critical airport monitoring and detection systems, ensuring compliance with engineering standards.
- Conducted technical validation and system testing, reducing system downtime by 15%.
- Worked closely with hardware/software engineers during deployment of advanced security and monitoring systems.
- Coordinated with vendors to evaluate technical specifications and ensure system compatibility.

Special Airport System Engineer



İGA İstanbul Airport

Apr 2017 - May 2019 (2 years 2 months)

- Designed and optimized electrical schematics for real-time monitoring systems, improving detection accuracy by 25%.
- Installed and tested hardware systems, ensuring compliance with aviation safety standards.
- Supported development of digital monitoring systems with software engineers to enhance operational insight.
- Provided technical documentation for system performance and fault diagnostics.



Project Engineer

Otomatica

Feb 2016 - Jul 2016 (6 months)

- Designed and analyzed HVAC automation systems, ensuring alignment with client technical requirements.
- Delivered technical presentations to explain system schematics and automation processes.
- Supervised on-site engineering activities, focusing on quality and safety compliance.



Software Test Engineer

Keytorc Software Testing Services

Aug 2015 - Dec 2015 (5 months)

- Developed automated testing scripts in Selenium to validate software reliability.
- Executed regression testing, identifying bugs and performance issues for engineering teams.
- Reviewed technical documentation for accuracy and compliance with system design requirements.

Education



FH Joanneum

Master of Science - MS, Electronics and Computer Engineering

Aug 2023 - Present



Yildiz Technical University

Master's degree, Business Administration and Management

2018 - 2020



Sakarya University

Bachelor's degree, Electrical and Electronic Engineer

2008 - 2014

Skills

- Power Electronics: Resonant converters, transformer design, soft-switching, bidirectional DC/DC topologies
- Embedded Systems: MSP430, ARM, embedded C, firmware development, GPIO/PWM/RTC integration
- Circuit & PCB Design: Analog/RF design, Altium Designer, OrCAD, LTspice
- Simulation & Tools: MATLAB/Simulink, Digital Signal Processing, Python, VHDL
- Project Management (secondary): PMP®, Agile/Scrum, Risk Management, PMO reporting