



Ömer Faruk Oruç

Electrical Electronics
Engineer

Contact

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- github/some projects

Education

SAKARYA UNIVERSITY
Electrical And Electronics Engineering

SINAV TEMEL
High School

Software Skills

- Matlab & Simulink
- Python
- Assembly and C++
- Altium Designer, KiCad, LTspice, Multisim
- AutoCAD
- Data Link and Physical Layers
- Deep Learning and Machine Learning
- Microcontroller Programming
- HTML, CSS, Javascript

Experience

- MTK SPACE AND DEFENSE TECHNOLOGIES INC.**
Member of the Board of Directors 2024 - 2025
Contributed to national and international R&D programs within TUBITAK and KOSGEB supported startup operating offices at Istanbul Technical University and Sakarya University. Supported the development of a unified Battery Management System (BMS) for managing multiple battery cell types. Actively participated in technical meetings, industry fairs, and innovation-focused development efforts.
- TURKISH TECHNIC**
Intern 2023
Gained hands-on experience in aircraft avionics maintenance and troubleshooting. Improved technical communication by interacting with international customers. Contributed to inspection, repair, and modular integration processes in a dynamic aviation environment.
- MEV HAVACILIK**
Avionics Team Leader 2021- 2022
Led the avionics sub-team in international UAV competitions. Designed and developed custom electronic modules including ESCs and flight control units. Took part in system-level integration and testing processes; the team achieved national recognition with its successful project outcomes.
- SASTEC TEAM**
Electronic Team Leader 2020- 2021
Designed and implemented original electronic boards, including motor driver and flight control systems. Oversaw coordination, testing, and documentation in a multidisciplinary team of future engineers, ensuring robust system performance and hardware reliability.

Projects & Publications

- TUBITAK**
Project Manager 2023 - 2025
Data security in 5G NR was ensured through cryptology within the scope of Signals Intelligence (SIGINT). This project was carried out in collaboration with CTech and Sakarya University.
- IEEE XPLORE**
Author of International Conference Paper 2024
Authored a conference paper titled "Prediction of Obesity Levels Based on Eating Habits and Physical Conditions Using Machine Learning." DOI: 10.1109/ASYU62119.2024.10757124

References

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