

Youssef A. Youssef

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Profile

Electronics and Communication Engineer with R&D experience in electronic design, UAV systems, and communication technologies. Up to date with the latest drone technologies look forward to applying my skills to innovative aerospace R&D.

Education

Qassim University | *Qassim, Saudi Arabia* | 01/2020

Electronic and Communication Engineering - BSc (ABET-Accredited Program)

GPA: 3.6/4.0 (Second Degree Honors)

Graduation Project: RSSI data analysis for tower planning in collaboration with Saudi Telecom.

Experience

SardX | *Istanbul, Turkey* | **R&D Engineer** | 11/2024 - present

- Integrated motor driver hardware and control firmware, including PCB design, with touchscreen interface to manage motion and system features of a mobility scooter.
- Contributed to the design and avionics integration of a 12Kg hexa-copter cargo drone.
- Performed multiple flight tests and tuning to validate system reliability and performance.

Drone Systems Start-up | *Istanbul, Turkey* | **Electronics Engineer** | 01/2023 -- 01/2024

- Performed technical evaluation of advanced electronics for UAV applications to support design and integration decisions.
- Developed two custom flight controllers (Arduino and STM32) with long-range communication (LoRa, ELRS), GPS, and data logging

ISA-Net | *Tirana, Albania* | **Telecom Field Engineer** | 01/2021 - 04/2021

- Conducted comprehensive field surveys of fiber optic infrastructure for corporate acquisition
- Performed fiber-optic splicing and produced detailed technical documentation.

Saudi Telecom Company (STC) | *Qassim, Saudi Arabia* | 01/2019 - 12/2019

R&D Project | 8 months

- Analyzed multi-generation (2G-4G) signal strength data for network optimization.
- Delivered analytical report adopted by the network planning team for coverage optimization.

Engineering Intern | 4 months

- Completed rotation program across Network Planning, RF Optimization.
 - Tested and verified telecom tower installations for compliance with Huawei specifications.
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Skills

Languages: Turkish (intermediate), English, Albanian, Arabic, Bosnian.

Hardware Design: Altium Designer, KiCad, LTspice.

Embedded Systems: STM32 (HAL, STM32duino), ESP32, Arduino, TI LaunchPad, Raspberry Pi

UAV Frameworks: ArduPilot, PX4, MAVLink, MAVSDK, MAVproxy, Gazebo, SITL, CANUAV.

Development Tools: STM32CubeIDE, VS Code, PlatformIO, Keil µVision, U-blox u-center.

Test Equipment: Spectrum Analyzer, Oscilloscope, Logic analyser, VNA

Competition Achievements:

- Teknofest - Aselsan Air Defense Systems Competition (Finalist) - 2025
 - Teknofest - TÜBİTAK International UAV Competition (6th place) - 2025
 - Teknofest - AFAD Technology for Humanity Competition (4th place) - 2024
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Certifications:

- C++ Nanodegree – Udacity
- Sensor Fusion Nanodegree – Udacity