Farouk Jawhari

PhD Student in Electronics

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0753418109
Île-de-France, France

Electronic Engineer specializing in Radio and Telecommunications Systems, currently developing and optimizing a wireless communication system based on magnetic induction for petroleum drilling applications. Seeking telecommunications design circuit and signal processing roles upon PhD completion in March 2026.

Core Skills

Radio Frequency Engineering, Telecommunications Engineering, Electrical Engineering, Application-Specific Integrated Circuits
(ASIC),
Analog Circuit Design, Printed Circuit Board (PCB) Design, Programming Languages, Integrated Circuit Design,
Analog Integrated Circuit Design,
Radio Frequency (RF) Engineering, RF Design,Modulization & Simulation, CST, ADS, Cadence,Matlab, VHDL, KiCad EDA, Proteus, PSIM, Python, C, C++, SQL, Arduino IDE + (LoRa)

Education

University of Bordeaux & SLB

Aug 2023 - Present

PhD Student Electronics

University of Bordeaux

Sep 2021 - Jun 2022

Master's Degree
Complex Systems Engineering

ENSEIRB-MATMECA

Sep 2019 - Jun 2022

Electronic Engineering Degree
Specialization in Radio and Telecommunication Systems

Association for the Promotion of Excellence in Education

Sep 2017 - Jun 2019

Preparatory Classes
Engineering Studies - TSI

Interests

Cultural gatherings, Museum visits and Making music

Work Experience

Electrical Engineer

SLB (ex : Schlumberger) | Clamart, Île-de-France, France

Oct 2022 - Mar 2023

ASIC Characterization & Tests:
- Conducted detailed ASIC characterization on speed, power, and thermal metrics.
- Collaborated with teams to align design and testing.
- Documented processes, results, and findings in comprehensive technical reports for stakeholders.

End-of-studies internship

Schlumberger | Clamart, Île-de-France, France

Feb 2022 - Jul 2022

Design of an Analog-to-Digital Converter (ADC):
- Developed a CMOS 0.18µm ADC for high-temperature applications (>200°C).
- Optimized performance via switch analysis, enhanced signal integrity, reduced power consumption, validated designs through simulations, and documented methodologies and findings in detailed technical reports.

Academic Projects

ENSEIRB-MATMECA | Bordeaux, France

Sep 2019 - Dec 2021

Designed RF components with ADS, optimized beamforming, contributed to nanosatellite RF design, developed IoT-based anti-jamming solutions, fabricated MOS transistors, created audio amplifiers, linearized photoresistors, and designed a wireless power transmission system for efficient energy transfer.

Volunteer Experience

President

Foreign Students' Welcome Club (CLUBEE)

Sep 2020 - Jun 2021

Communication Manager

ENSEIRB Gaming House

Sep 2020 - Jun 2021

Languages

French *(Bilingual Proficiency)*
English *(Full Professional Proficiency)*
Arabic *(Native)*