

Amal JEMAI

Master's student in electrical engineering and sustainable development

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🎓 EDUCATION

Master's degree (Year 2) in Electrical Engineering and Sustainable Development , <i>University of Lille</i>	09/2025 – Present Lille, France
Electrical Engineering , <i>National Engineering School of Tunis</i>	09/2021 – 10/2024 Tunis, Tunisia
Technology Pre-Engineering Studies , <i>Preparatory Institute for Engineering of El Manar</i>	09/2019 – 07/2021 Tunis, Tunisia
Baccalaureate diploma , <i>Khmir High School</i>	2019 Ain Drahem, Tunisia

📁 PROFESSIONAL EXPERIENCE

Automation Development Engineer , <i>Sagemcom Tunisia</i>	02/2025 – 07/2025 Tunis, Tunisia
<ul style="list-style-type: none">Validation of electronic board test benches for the company's various energy meters (electricity, water, gas).Developing innovative test bench solutions with open-source software tools, significantly reducing testing time and improving overall efficiency. Utilized : LabVIEW, TestStand, Node-RED, Electronics, Electric Circuit Design.	
Graduation internship , <i>Laboratory of Automation, Process and Pharmaceutical Engineering (LAGEPP)</i>	04/2024 – 09/2024 Roanne, France
<ul style="list-style-type: none">Designing a robust data acquisition module for Airborne Wind Energy systems which is energy efficient and contains numerous sensors to acquire experimental data.Validating the dynamic models and formalizing the control problem for these systems. Utilized : Pixhawk 6C, Ardupilot, control models, Electronics, Instrumentation, Airborne wind energy systems	
Internship , <i>Electrical Systems Laboratory (L.S.E.), ENIT</i>	Tunis, Tunisia
<ul style="list-style-type: none">developed an innovative solution that proactively targets electrical cable cuts, while ensuring an instant response from the competent authorities.Designed a receiver for the anti-theft system that can work with the lowest battery voltage to optimize power consumption. Utilized : Eagle, PSpice, PSIM, Electronics, Power Electronics, Electric circuit design	
Internship , <i>Be Wireless Solutions</i>	Tunis, Tunisia
<ul style="list-style-type: none">Simulation and design of electronic circuits using Altium Designer software : simulation of switched-mode power supply (SMPS) circuits. Utilized : Altium Designer, Analog Electronics, Electric circuit design	

📁 ACADEMIC PROJECTS

Design and implementation of a transistor curve tracer , <i>Second Year End Project</i>
Used : STM32CubeIDE, Eagle, Proteus ISIS and Qt Creator
Control of a closed enclosure system , <i>Automation project</i>
Used : MATLAB, Simulink, STM32CubeMX, Keil µVision Eagle and LabVIEW
Flight Management application , <i>Mini-Project C++</i>
Used : Qt Creator and DB Browser

🧠 SKILLS

Programmig C, C++, Python, MATLAB	Embedded Boards STM32F4, BeagleBone, Raspberry Pi 4	Software STM32CubeIDE, Keil µVision, PSpice, Visual Studio, Eagle, Simulink, LabVIEW, Teststand
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🌐 LANGUAGES

Arabic — Native

French — DELF B2

English — TOEIC B2

🧩 EXTRACURRICULAR ACTIVITIES

ENIT Ecocar

The prospect of being part of a team dedicated to eco-friendly transportation solutions intrigued me, it gave me the opportunity to develop both hard and soft skills. ENIT Ecocar club allowed me to develop my communication skills, to manage time and to expand my knowledge about automotive industry.