

## Work Experience and Internships

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**ADJUNCT UNIVERSITY LECTURER** – Higher Institute of Technological Studies (ISET) – Kebili, Tunisia  
October 2025 - Current

- Conducting practical sessions in electrical circuits.
- Supervising students in analog electronics.
- Preparing and managing teaching materials and lab equipment.

**ELECTRICAL ENGINEER** – Construction Work Company – Kebili, Tunisia  
July 2024 – June 2025

- Conducted electrical design studies in accordance with relevant standards and project specifications.
- Supervised site installations to ensure quality and safety compliance.
- Prepared detailed electrical schematics using **AutoCAD**.

**END-OF-STUDIES PROJECT INTERNSHIP** – DRÄXLMAIER SATE – Mahdia, Tunisia  
February 2023 - June 2023

- Developed a full-stack web application to report and track defects on the production line, improving communication between operators and supervisors.
- Used **Angular** for the front end and **Spring Boot** for the back end to ensure responsive and scalable performance.
- Integrated **MySQL** for data storage and used **Power BI** for real-time data visualization and analytics.
- Employed **Postman** for API testing and followed the **Scrum** methodology for agile development.

**INTERN** – Consulting Engineer's Office for Electricity and Fire Safety – Kebili, Tunisia  
July 2022 – August 2022

- Created single-line electrical schematics using **AutoCAD**.
- Developed code for cable section calculations using **MATLAB**.

**INTERN** – Tunisian Company of Electricity and Gas (STEG) – Kebili, Tunisia  
July 2021 - August 2021

- Learned about electricity production and distribution systems.

## Projects

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**DRIVER DROWSINESS DETECTION SYSTEM**  
2023

- Designed and implemented a real-time driver drowsiness detection system using **Python** and **OpenCV** on a **Raspberry Pi 4**.
- Integrated deep learning models with **Keras** to detect signs of fatigue from live video input.

**RASPBERRY PI BOARD CONTROL**  
2023

- Programmed and tested the Pi Sense HAT extension board and controlled the Raspberry Pi camera module using **Python**.
- Gained hands-on experience with IoT protocols by implementing **MQTT** and integrating **ThingSpeak** for real-time data monitoring and visualization.

**SMART CONNECTED LOCK**  
2022

- Designed a smartphone-controlled connected lock using **ESP32** and **C language**.

## Skills

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- **Programming:** Python, C/C++, Java, HTML/CSS
- **Frameworks/Tools:** Angular, Spring Boot, Power BI, MATLAB/Simulink, TIA Portal, VHDL, LabVIEW
- **Hardware & Design:** Raspberry Pi, STM32, ESP32, Proteus, AutoCAD, Linux/Windows environments

## Training

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### STM32 Training – ACTIA Engineering Services

Topics covered : UART, ARM, Embedded C.

## Languages

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- French – Proficient
- English – Intermediate
- Arabic – Native

## Education

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### ENGINEERING DEGREE IN ELECTRICAL ENGINEERING (Specialization: Automation and Industrial Computing)

National Engineering School of Sfax (ENIS), Tunisia

2020 – 2023

### PREPARATORY CYCLE IN PHYSICS-CHEMISTRY

Higher Institute of Applied Sciences and Technology of Gabes, Tunisia

2018 – 2020