## (+216) 26739956 | wiem.altabbal@gmail.com https://www.linkedin.com/wiem-tabbal/ https://wiemtabbal1.github.io/WiemTheEngineer.github.io/ Kebili, TUNISIA

# WIEM TABBAL

### **Skills**

- Programming: Python, C/C++, JavaScript, 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

## Languages

- French Proficient
- English Intermediate
- Arabic Native

# Work Experience and Internship

#### **ELECTRICAL ENGINEER - Construction Contracting Office - 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**

#### **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.

#### **Education**

ENGINEERING DEGREE IN ELECTRICAL ENGINEERING - 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