



# Saif Ddine Jendoubi

Embedded Systems Engineer

Graduated as valedictorian of my class. looking to fill a position in Embedded systems Engineering. Wishing to use my knowledge in the full product development process of an embedded system project. Experienced in using C and Python in developing subroutines and applications and can apply machine learning too. I have good debugging and root cause analysis skills. I am adaptable and a quick learner.

## Relevant Work Experience

### Project Development Intern “Electronic Travel Aid for Blind People”

Progress Technologies, France “Remote Work” 2020/04 - 2020/08

- Provided a cost-effective ETA solution based on market analysis.
- Created a navigation system based on Deep Learning and ultrasonic waves.
- Optimized Deep learning models to run on Raspberry Pi with high FPS.
- Developed a Mobile application with a Natural Language User Interface.

Used tools: Python, Tensorflow, various APIs.

### Electronic Engineer Intern “Euridis Modem Circuit Design”

INNOV-ALLIANCE-TECH IAT, Tunisia. 2019/05 - 2019/07

- Tested and evaluated the schematics for each part of the circuit diagram.
- Created missing component's footprint libraries based on their datasheets.
- Documented every aspect of the project for future reference.
- Designed printable PCB with Altium designer, with optimized layout.

### Project Development Intern “Smart Meter for Multi-occupancy Building”

INNOVATION-CENTER, El ghazala Technopark, Tunisia. 2018/03 - 2018/06

- Studied CT-Sensor's behavior using datasheet and electronic test instruments.
- Implemented a printed circuit to calibrate the waveform received by the CT sensor.
- Created an algorithm in STM32F7 to transform the ADC signal into readable data.
- Implemented an embedded web server to retrieve power consumption data and costs.

### Embedded Systems Developer Intern “Defect Detection System-ERP Solution”

LOGIDAS, Lac 1, Tunisia 2017/06 - 2017/08

- Created a BLE cluster-based solution connected with an ERP system.
- Implemented a capacitive-sensor-based solution to detect discarded products.
- Created a subroutine with Delphi to update the current status.
- Enhanced the failure analysis process of the factory.

## Education

**M.Sc. degree in Infotronics (Valedictorian)** 2018-2020  
The Higher Institute of Information Technologies and Communication, Tunisia.

**Favorite fields of study:** Smart sensors, IoT networks & protocols, Computer vision.

**Thesis title:** “Electronic Travel Aid for Blind People”

**Key achievements and extracurricular activities:**

- Team leader Enactus ISTIC Tunisia. 2017-2018 & 2019-2020.

**B.Sc. degree in Industrial Computing | Embedded Systems** 2015-2018  
The Higher Institute of Information Technologies and Communication, Tunisia.

**Favorite fields of study:** Digital Logic Systems, Embedded Systems Design, Computer Architecture.

**Thesis title:** “Smart Meter for Multi-occupancy Building”

**Key achievements and extracurricular activities:**

- Founder and president of Enactus ISTIC Tunisia, from 2017.
- Nationwide students representative in the National Reforms in Higher Education in 2017.

## Details

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**Address:** Tunis, Tunisia

**Nationality:** Tunisian | **Age:** 26

**Marital status:** Single

## Soft Skills

Creativity  
Leadership  
Initiative  
Problem solving  
Presentation skills  
Teamwork  
Collaboration  
Active learning  
Adaptability  
Willingness to travel

## Technical Skills

Microcontrollers(ARM,AVR,PIC)  
Linux  
Circuit designing  
Electrical measurements  
IPC  
PCB designing  
Altium| Eagle| Proteus  
Android Studio  
Cordova  
LabVIEW| TIA Portail  
AWS (IAM, EC2, S3, Lambda)  
UML | Petri NET

### Programming Languages:

**C | C++**

**Python**

JAVA | Kotlin  
React Native  
Matlab  
SQL| PHP  
Bootstrap | JQuery  
HTML| JAVASCRIPT

### Certifications:

CCNA - Network Associate Industrial  
IBM - Big Data Engineer

## Languages

English	Proficient
Arabic	Native
French	Intermediate
Japanese	Elementary

## Interests

Drawing (Portraits mostly)  
Trekking & Camping  
Writing & Reading