

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.

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, CAO for electronics, 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.

Relevant Work Experience

- **Project Development Intern "Electronic Travel Aid for Blind People"**
Progress Technologies, France "Remote Work". 2020/04 - 2020/08
 - Provided a 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, weather forecast API.
- **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 the missing component's footprint libraries based on their datasheets.
 - Documented every aspect of the project for future use.
 - Created a printable PCB design using Altium designer, with an 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.
 - Designed a user-friendly Touchscreen interface to monitor the smart meter.
- **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.

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
Matlab
SQL| PHP
Bootstrap | JQuery
HTML|JAVASCRIPT
VHDL | ASSEMBLY

Certifications:

CCNA -Network Associate Industrial
IBM -Big Data Engineer

Languages

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|----------|--------------|
| English | Proficient |
| Arabic | Native |
| French | Intermediate |
| Japanese | Elementary |

Interests

Drawing (Portraits mostly)
Trekking & Camping
Writing & Reading