



Slimane KERROUCHI

PhD Student & Teaching Assistant

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## Experience

### Master 2 Project – January 2020 to March 2020

**INSA Laboratory- Valenciennes – France**

Realization of a decoder which decodes the 406 MHz frames of the distress beacons.

Implementation: uC/PCB/EAGLE/Antenne/C,C++ /ISIS Proteus

### Master 1 Project - May 2019 to June 2019

**Transalley Company - Valenciennes – France**

Development of an on-board device to count vehicles in the campus parking lot, provided a solution to avoid traffic.

Implementation:

Java/Atmega32/Android Studio/C,C++/FireBase/Sqlite/Sensors

### Undergraduate Project - January 2018 to June 2018 - Algeria

Implementation and prototype realization of CAN bus and performing successfully transmit/receive tests.

Implementation:

Java/Intellij Idea/Stm32/C,C++/DC Actuators/CAN/BxCAN

### Student internships - 2016 to 2018 - Algeria

- Condor Electronics Company, 2018 : Air conditioner Production.
- URAER Applied Research Unit in Renewable Energies, 2017: Researches in Photovoltaic and Solar panel.
- SO.F.ACC Company, 2016: Vehicles batteries Production.

Link: [Internships](#)

## Soft Skills

- Leadership
- Teamwork
- Complex problem-solving
- Active learning

## Technical Skills

### Embedded Systems

- Embedded C
- STM32 GPIO,I2C,SPI,USART,CAN
- ARM architecture
- Stm32/PIC/ATmega32
- Eagle, ISIS Proteus
- FreeRTOS, Keil uVision, STMCubMx

### Telecommunication

- **Wireless Technology** TDMA, CDMA, OFDM, Cognitive radio
- **Optical fiber(FTTH)** SMF/MMF
- **Modulation and coding**
- **Location technique** TOA/AOA/TDOA/RSSI
- **Location systems** GPS/GLONASS/GALILEO, Wi-Fi/UWB/GSM/Infrared/Bluetooth/Zigbee
- **Vehicle location system**  
V2X/ERTMS/ECTS/GSM-R
- **Sensor networks**  
SPIN/DD/RR/MCFA/LEACH

### Automation

- TIA Portal,WinCC
- Simatic Manager Step7, API, PID
- ProfiBus(DP/PA), ProfiNet, ModBus

### Programing

- C/C++, Java/JavaFx, Android, Python
- Matlab/Simulink
- Databases SQL-SQLite-Firebase

### Online certificate

- Mastering STM32, TIA Portal
- Machine learning, Deep learning

Link: [Certificates](#)

## Language

- French, English : Advanced Intermediate
- Berber, Arabic: Native speaker

## Education

### 2021 – 2025 PhD Student & Teaching Assistant, Belgium

**Ghent University ([ugent](#))**

**Faculty of Engineering and Architecture**

Industrial Systems Engineering and Product Design

### 2018 – 2020 Master degree, France

**Institut Nationale des Sciences Appliquées Hauts-de-France ([INSA](#))**

Option : Embedded Systems Engineering and Mobile Communications.

### 2015 – 2018 Bachelor's degree, Algeria

**Ecole Nationale Supérieure de Technologie ([ENST](#))**

Electrical Engineering (GEII)

Option : Automation and systems.

### 2011 – 2015 Bachelor's degree, Algeria

**Béjaia University ([UAMB](#))**

Applied Mathematics - Operational research.

### 2010 – 2011 High school certificate, Algeria

Option: Mathematics, Mention: Good.