

# Curriculum Vitae



**Asma NOUIRA**

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23 - Single

## SKILLS

### Programming:

C | C++ | Python | VHDL | Matlab |  
MikroC for PIC | Assembly  
language

### Design and Development software:

Proteus ISIS | LabVIEW | starUML  
| EAGLE | Maxwell3D | Adobe  
Illustrator | Adobe premiere |  
Adobe photoshop | Solidworks  
(Optimal Knowledge) | Xilinx |  
ModelSIM.

### Knowledge:

EMC | systems Reliability,  
dependability | VMIPS | CAN | I2C  
| SPI | LIN | FlexRay | Modbus |  
UART | DSP | FPGA | STM-32 |  
Arduino | Raspberry | Zedboard |  
PIC | Computer Vision | Neural  
Network | Fuzzy Logic | Genetic  
Algorithms.

## LANGUAGE

English (independant user)  
TOEIC 755  
French (independant user)  
German (Basic)

## LEISURE ACTIVITIES

Robotics  
Painting  
Reading  
Sports

## ABOUT ME

Relentless and passionate future engineer specialized in embedded electronical systems. Refined in Communication protocols, software and hardware programming and computer vision. Well integrated in associative life. Seeking an end of studies project preferably in artificial intelligence or IoT and looking forward to being part of an inspiring team.

## EDUCATION

**2021/2022: Engineering in Industrial Electronics: embedded systems**  
National Engineering School of Sousse. (In progress)

**2019/2019: Diploma in Preparatory cycle in physics and chemistry**  
Monastir Preparatory Engineering Institute.

**2016/2017: Bachelor's degree,** Teboulba High School.

## INTERNSHIPS

**Engineering Internship:** Medical interface development. LATIS: ENISo.

**Initiation Internship:** Electrical control table for car cables. Electro-contact: Ksar hellal.

## PROJECTS

**Intelligent Road Cells (First Place Hi-Q Hackathon'21: AI and IoT Automotive Industry Challenge)**

Prevents, detects accidents by **communicating** modules to be installed in highways designed with **solar panels**, LEDs, **STM-32**: basic prototype built with Arduino.

### **EMC Identifier**

Prototype that will detect Electromagnetic pertubations and identify its source (Machine learning). Designed with **STM32, Python, MATLAB**.

### **Touchless Medical interface**

Designed with **Leap Motion, Kivy, python**. It's about Touchless interface allows you to control X rays, IRMs... during surgeries.

### **LED cube**

Designed with Arduino that can be used to organize hospitals (covid sectors and non-covid sectors).

**Self-Balancing Robot** Designed with Arduino, PID, Gyroscope.

**Dancing LEDs** Blinking leds with music. Designed with microphone, resistances, transistors.

## NETWORK AND LEADERSHIP

**Organizer** of the **Forum of convergence ENISo-Enterprises the 10th edition.**

**Chief** of the Off-road Robotic competition in ENISo Smart Challenge v6.

**Organizer** of 2 internal robotic competition in Eniso.

**Organizer** of the **Forum of convergence ENISo-Enterprises the 9th edition.**

Participant in several competitions (Robotic, pitching: Hult Prize)

Senior Member in Eniso Team (Robotic Club in ENISo)

Member in Eureka (Cultural Association in ENISo)