



Noomane Ridha

Work Experience



NXP | Jul 2021, Now – *Digital Validation Engineer of NFC Product*

- Prepare Test Validation for NFC blocs, like(I2C, i3C, SPMI, Power, ...)
- Develop firmware using java and python to automate some tests
- Develop firmware to stress and validate CPU, Memory, Protocols,...
- Customer support for debug.

Elsys Design| Oct 2018, Jun2021–*Embedded Software Engineer*

- June 2019, Consulting at NXP :
 - Debug hardware and software defects for NXP products.
 - Stress test and validate analog, digital, and PMU bloc for NXP microcontrollers.
 - Write technical documentations and review test results with IP owner.
 - Provide project status updates and compliance matrix.
- Feb 2019, Jun 2019 Consultant at AXIS :
 - Developed a PLC software solution using an STM32F407
- Oct 2018, Feb 2019 Embedded Software Engineer at Elsys Design:
 - Developed a software solution to track train route and apply lubrication on the rails.
 - Write technical documentation for clients.

WI6Labs| Mar 2018, Sep2018 – *Embedded Software Engineer Internship*

- Integrated Nucleo-STM8xx to the Arduino environnement:
 - Developed libraries for STM8 to allow compatibility and modification in C++
 - Adjusted I2C, SPI and UART Library.
 - Tested and validated all standard Arduino libraries on Arduino IDE.
- Setup an embedded tracking system based on Lora and Ranging Protocole:
 - Used Semtech SX1280(2.4Ghz) and STM32L4.
 - Used Contiki os for the IOT application.

Upperskills| Mar 2017, Sep2017–*Embedded Software Engineer*

Developed an AI solution using knowledge base that got acquired by Amazon:

- Setup of the AI personal assistant bot.
- Developed the bot solution using nodeJS and hosted it on AWS service.
- Designed the hardware solution for the personal assistant bot.

Education



Engineering Degree in Embedded software| 2015 - 2018

Polytech International.

Bachelor Degree in Electronics | 2012 - 2015

Science faculty of Tunis.

Awards & Activities



World Summit Award | 2017

Nominated as best VR game.

Startup Weekend | 2017

Nominated as best AI solution.

Imagine cup by Microsoft | 2016

Best VR game In Africa.

WebSummit Lisbon | 2016–*Speaker*

Spoke about Virtual Reality in Africa.

Cyborgs polytech Club | 2016–*Founder*

Taught robotics to middle school students.

Cachan Robotic Festival | 2018

48H challenge - Third place.

TUNIROBOT| 2017

24H challenge – Second place.

IRobots| 2016

Racer Robot – First place.

TunisianRobot| 2016

Sumo Robot – Third place.



Based in France



Not Available for public



Not Available for public



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SKILLS

Embedded systems	Git, SVN, Contiki,
Linux, Electronics	6lowPan,Raspberry,
robotics	Arduino,STM32
JAVA,	Xcode,
C++, C	Embedded C,
Android	Assembly (ARM
Virtual Reality	Thumb2), Shell,
Game developper	Bash,
Artificial Intelligent	Leadership,
FreeRTOS, IAR	RTX, JIRA, Python
Keil, LPC55xx,	I3C, I2C, SPI, SPMI,
JN5189, CC3 Board	GPiB. ARM (M0, M3, M4,
zigBee	M33)
	Presentation skills.
	Documentation Write
	Languages: English,
	French,

References

Tracking system article:

<http://www.wi6labs.com/2018/08/02/iot-et-geolocalisation-le-retour-dexperience-dune-startup-bretonne>

Personal Assistan Robot:

https://drive.google.com/file/d/1n3aBddHL_E6fC_eJUyqvnA8nMH9yhqwuA/view

VR BoxingGame:

<https://www.youtube.com/watch?v=-XrMaPi8PLM>