

Hassan Et-tanany



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Rabat, Morocco. Open to national and international mobility



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Embedded Systems Engineer

ABOUT ME

I'm a highly motivated embedded Systems Engineer, I constantly strive to learn new technologies and use them to solve meaningful problems.

COMPETENCES

- **Programming:** C/C++, Python, Java, Matlab/Simulink, Assembly.
- **Operating systems:** Linux, Embedded Linux, Windows.
- **Communication Buses:** CAN, SPI, I2C.
- **Wireless Sensor Network:** Zigbee.
- **Embedded platforms:** Raspberry pi, ODROID-XU4, FPGA, NIOS II, DSP, microcontrollers (ATmega328P, PIC), ARM Cortex M/A.
- **Software:** Quartus II, keil µVision IDE, LabVIEW, Proteus8, Arduino IDE, MikroC PRO for PIC, SolidWorks.
- **Hardware description language:** VHDL
- **Information processing:** Signal processing, image processing
- **Information coding:** Huffman, Shannon Fano
- **Project management**
- **Instrumentation and acquisition chain**
- **Web development:** Fundamentals of HTML, CSS and JavaScript
- **Modeling languages:** Merise
- **RDBMS:** Microsoft Access, SQLite
- Electronics, automatic, maintenance.

LANGUAGES

Arabic: Reading, writing, speaking

English: Reading, writing, speaking

French: Reading, writing, speaking

Tamazight: Native language

WORK EXPERIENCE

Orange | End Of Studies Project

02/2022 – Present

Rabat, Morocco

- ✓ Design and develop of the hardware architecture for an unmanned aerial vehicle (UAV).
- ✓ Design and implement of the software architecture.
- ✓ Debug and resolve software issues.
- ✓ Used the **SITL** (software in the loop) simulator for testing the behaviour of the code.
- ✓ Used **Git** as Version Control System.
- ✓ Participated in **Agri Makers:** the 2022 Solidarity FabLabs Challenge.
- ✓ **Tools:** C/C++, Python, CMake, ROS, SSH, Git, SolidWorks.

High School of Technology | End Of Studies Project

05/2020 – 06/2020

Guelmim, Morocco

- ✓ Designed automatic bottle capping machine based on programmable logic controller.
- ✓ **Tools:** Automgen8

Régie Autonome Multi-Services d'Agadir (RAMSA) | End Of Studies Project

04/2019 – 05/2019

Agadir, Morocco

- ✓ Designed pumping station electricity network
- ✓ Developed Human-machine interface
- ✓ **Tools:** Unity Pro XL

EDUCATION

Master's Degree | Embedded Systems and Biomedical Engineering

National School of Applied Sciences

2020 – 2022

Agadir, Morocco

Bachelor's Degree | Instrumentation and Systems

High School of Technology

2019 – 2020

Guelmim, Morocco

University Diploma in Technology | Electrical Engineering

High School of Technology

2017 – 2019

Agadir, Morocco

Baccalaureate Degree | Electrical Technology

Al Idrissi Technical High School

2017 – 2019

Agadir, Morocco