BELKHER RADOUANE

Engineering of Embedded Systems
Networks & Telecommunications

Looking for a job in Embedded Systems | Automation & Control | IoT & Robotics

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🎓 EDUCATION

University Hassan II –Faculty of Science and Technology (FSTM) |Mohammedia.
2021– 2022 : Master in Embedded Systems Engineering , Networks and Telecommunications.

University Hassan II –Higher School of Technology (EST)|Casablanca.
2019-2020 : Professional license in Mechatronics.

University Sidi Mohamed Ben Abdellah –Higher School of Technology (EST)|Fes.
2017-2019 : DUT in Electromechanics.

HIGH SCHOOL –EL MANSOUR DAHBI |TISSA.
2016-2017 : Baccalaureate in Physics-Chemistry.

💼 PROFESSIONAL EXPERIENCES

PFE internship at Orange Digital Center | Rabat -5 months 2022 (in progress)

Subject : "Realization of an autonomous drone for delivery of medicines to rural areas"

Keywords : Ardupilot Mega (APM3.2.1), Raspberry PI 4 , Camera Module v2.1, ArUco marker, MPU6050, Module GPS Neo-7M , dongle 3g , ESCs , Servo motor, linux OS , Python, OpenCV, Optical flow, UART, I2C, TCP/IP, Ser2net, ThingSpeak , Firebase, SITL Simulator, Misson Planner, ROS – Gazebo .

PFE internship in Electrical Engineering Department |EST-Casablanca -2 months 2020 .
Subject : "Sizing and simulation of a solar pumping station for watering agricultural land and domestic use"
✓ Sizing of solar pumps.
✓ Sizing and configuration of the field of photovoltaic panels.
✓ Choice of electrical protection equipment for the station

Technical internship at Finetti |Casablanca - 2 months 2019 .
Subject : "Reduction of the electricity consumption of an RTWD refrigeration installation"

✓ Functional analysis and diagnosis of refrigeration station.
✓ Proposal for a new configuration of the command at the station.
✓ Automatic management of chilled water production to cool packing rooms.

Renault initiation internship | Casablanca -1 month 2018 .
✓ Automotive technology.
✓ Automotive overhaul, diagnostics and maintenance.

☁ AUTOMATION PROJECTS

- Control of a mixing station, reactor station, bottling station with the **SIEMENS** PLC.
- Control of a part distribution and sorting station with a **FESTO** PLC.
- Regulation of the relative pressure in a circuit via an automatic valve by an **Arduino-uno** board using the **LabVIEW**.
- Control of a traffic light with pedestrian crossing with a **SCHNEIDER** PLC.
- Management of a car park with a **PIC16F877** microcontroller.
- Design of a calculator based on the PIC16F877 using the **Proteus "ISIS "** and developed in **Assembler**.
- Design of an image processing application with Matlab.

⚙ HARD SKILLS

Industrial computing and programming languages :
- Microprocessor systems, Microcontroller systems, FPGA circuits, linux OS.
- Programming languages: Python ,C , C++, Assembler ,VHDL.

Electronics :
- Analog / digital electronics.
- Instrumentation and associated electronics.
- Digital electronic design techniques (CAD, analysis & synthesis of electronic systems).

Automatic :
- Industrial servo-control and regulation
- Actuators, sensors and industrial instrumentation.

Automatism :
- Sizing of automated industrial systems.
- Programming and interconnection of industrial PLCs.
- Definition and creation of supervision tools.

Electrical :
- Industrial electricity & power converter
- Study and construction works CAD, modeling and control of electrical machines.

Networks & Telecommunications :
- Multimedia Signal Processing & sensor networks.
- Wireless communication protocols: WiFi, Zigbee, Bluetooth.
- Knowledge of interconnection and debugging buses : SPI, UART, I2C, CAN, LIN.
- Industrial Local Networks (RLI): Modbus, Profibus, Profinet, Ethernet.
- Telecommunication systems (lines, circuits, antennas).
- knowledge of the principles of communication systems (coding, compression, modulations).
- Advanced transmission, fiber optic telecommunications, radar systems, GPS and RFID technology.

🖥 SOFTWARES

Matlab/Simulink , Micro C for PIC , National Instruments LabVIEW , Proteus "ISIS & ARES" ,Simatic Step7 , FST 4.21, Schneider , Cisco Packet Tracer , CATIAv5 **.**

🔍 Soft Skills

+ Analytical & synthetical mind.
+ Disciplinated, Organized, Agile.
+ Team Work & spirit of collaboration

🔤 LANGUAGES

Arab : + + + +
French : + + +
English : + +