MOUHSINE CHRINBOU

Electrical engineering And Embedded system Design

Passionate about the design of embedded systems, very interested in the field of technology 4.0 and the field of artificial intelligence and IT

CONTACT

+2126-65-85-62-06

chrinbou.mouhsine@gmail.com

24 Years Old

Oualidia, Morocco

APPLICATION SKILLS

- MATLAB
- IOT framework
- CLOUD COMPUTING
- HARDWARE design tools
- C/C++,PYTHON, SQL,PL SQL,JAVA
- GNU/UNIX (centos,ubuntu,debian, raspbian)
- WINDOWS SERVER (2008,2012)

PERSONAL SKILLS

- Analytical mind
- Creative
- Deep thinking
- Serious
- Passionate about helping others

LANGUAGE

- ARABIC
- FRENCH
- ENGLISH

HOBBIES

- SPORT
- FISHING
- GAMES PROGRAMMING UNITY 3D
- Design(Photoshop,Vidéo editing ....)

EDUCATION

FACULTY OF SCIENCE AND TECHNOLOGY OF SETTAT FSTS 2017 To 2020

ENGINEER DEGREE

3 years of studies were enough to accumulate the maximum of information and develop my competences in the electrical field and the embedded systems thanks to the projects realized in our university.

PREPARATORY CLASSES | 2014 To 2016

2 years of study in a school of preparatory classes for engineering schools, which I developed at the mathematical and physical level and consequently the spirit of analysis and have a great level of reasoning.

BACCALAURIAT | 2014

BACHELOR

in my bachelor's degree in mechanical engineering I had the opportunity to know several concepts in the mechanical field in its two phases production and design.

WORK EXPERIENCE

THE END OF STUDY INTERNSHIP at PILLIOTY| February To July 2020

➢ First project: design and study of sensor-less solar tracker single axis based on NREL algorithm

Tasks: -Formation in scrum methodology.
-High and low level design of the system.
-Programation of the microcontroller STM32 for commending the system using (cubemx (hardware configuration), keil uvesion (Programation with C/C++), RealTerm (Visualisation of the result)).

➢Second project: respiratory system to fight against covid-19

Tasks:
-Advanced research on the respiratory system design.
-High and low level design of the sensing part of the system.
-System control using STM32.

TECHNICAL INTERNSHIP at PILLIOTY| July To September 2019

Designing a network server (gateway)and network application for IOT project using LORA technology

Tasks:
-Communication between two LORA nodes, two ttgo t-beam.
-Communication between several LORA nodes using time division multiplexing.
-Communication between LORA node and the raspberry card via the USB link.
-Sending data via internet to a cloud contains the IOT thingsboard platform.
-Optimization of energy consumption dissipated by the LORA ttgo board.

Professional Skills

Embedded systems

machine learning, deep learning, image processing, connectivity (Lora, Wifi, Bluetooth), communication protocols, programming of microprocessors and microcontrollers, VHDL design for FPGA and ARM cortex, design of embedded systems (arduino, raspberry, STM32), good knowledge of ADAS systems, analog and digital electronics.

Electrical systems

Modeling and operation of electrical networks, power electronics, training of electric machines with fixed speed and speed variable and renewable energies.

Business Management

Operational research.
Project management
Certified in SCRUM

Projects

Automotive self-diagnosis

an android application which contains the history of breakdowns, deletion of generous dashboard notifications, recommendation on the nearest diagnostic agency.
-AMSA 4 finalist (Alten MAROC).

SMART FARM

Remote control and supervision of an agricultural field using a WEB page

System for sorting vegetables

sorting of the vegetables according to their colorofic aspects (image processing, raspberry pi and camera)