Marwa CHOKRI

Mechatronics and embedded systems engineer

Motivated, punctual, cooperative, dynamic, friendly, passionate

About

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Soukra, Ariana, Tunisia

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Skills

Programming: C, C++, Python, SQL, JavaScript, VHDL

Board: Raspberry pi, STM32, arduino, pic16F, ESP32

IDE: Keil, visual code studio

Operating system: Linux, FreeRTOS

Mechanical: SolidWorks, CATIA

AI: CNN, Keras, Tensorflow, machine learning, deep learning, Anaconda, Colaboratory

Project management: Cycle in V, Scrum Agile

Communication protocols: UART, SPI, CAN

LabView, TIA Portal, Proteus, Altuim MATLAB/Simulink, MPLAB

Languages

English (TOIEC B2)

French (B2)

German (A1)

Interests

Photograph

Footing

Camping

World culture

Studies

2016 - 2020	**National Engineering Diploma of Mechatronics Studies** National Engineering school of Carthage
2012 - 2015	**Admission to the national school engineering (rank 300 over 1200)** Preparatory Institute for Engineering Studies of Gafsa
June 2012	**Bachelor's degree quite good: Maths**

Professional experiences

March 2020 - July 2020	**Engineering Internship**: Business Intelligence for Telecommunication, Tunis Design and development of an IoT and machine learning solution for autonomous and intelligent irrigation: ▪ Supervise and remotely control the irrigation nodes installed in the farms ▪ Develop a solution to collect and monitor weather conditions for farmers Key words: C, Lora Wan, MQTT, Tensorflow, python, Node-Red, IBM Watson
July 2019 - August 2019	**Technician Internship**: Yazaki, Bizerte Mechanical design of the machine STCS-B and initiation of continuous improvement: Kaizen Key words: SolidWorks, 5S
July 2017 - August 2017	**Initiation Internship**: Tunisian chemical group, Gafsa Creation of a database and mechanical design of the shaft of a crusher Key words: SQL, SolidWorks

Projects

Deep learning boot camp project	Detection of a car and recognition of its parts with a classification of parts damaged or not Tools: CNN, Keras, Python
End of year project	Realization of a humanoid robot for autits that allows to do facial and emotions recognition and send a voice message Tools: Raspberry pi3, camera, OpenCV, Python
IoT project	Temperature and humidity monitoring via a mobile application and dashboard Tools: Node MCU, DHTT11, firebase, thingspeak
Embedded project	Realization of an intelligent wand to the blinds Tools: STM32F4, ultrasonic sensor, servomotor, LCD
Mechanical project	Design of a bionic arm Tools: SolidWorks Design of a lob pump Tools: CATIA V5