



SOUFIEN GHRABI

Mechatronics engineer

CONTACT

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skills

Programming languages
python / c / c++ / java / vhdl / ladder
mechanical concept

CATIA, SOLIDWORKS, Abaqus

electronics design

Proteus (ISIS et ARES), KiCad, Altium Designer

Development environment

LabVIEW, MATLAB, ModelSim, Tia Portal, dev c, Android studio, Visual Studio, Cubemx, netbeans,

Microcontrollers/ Development Boards

STM32x, Raspberry Pi, Arduino, PIC16F, NodeMCU, FPGA

frameworks

OpenCV / TensorFlow

Quality Control :

Lean Six Sigma , PDCA , AMDEC , Ishikawa
Languages

- Arabe : mother language
- Français : Fluent.
- Anglais : Very good

Certifications

Solidworks (CSWA)

Community life

Member of the MEGABOT ULT robotics club
2018-2020

ACADEMIC PROJECTS

- design and construction of a hexapod robot
- design and construction of art robot with face tracking via opencv
- Design and Construction of Line Following Robot

EDUCATION

- **National Engineering Diploma in Mechatronics Engineering**
Tunisia Private University ULT 2018-2021
- **applied license in electrical engineering industrial electronics**
Higher Institute of Technological Studies of Nabeul 2014-2017
- **Baccalaureat diploma :baccalaureate technology 2014**

EXPERIENCE

End of studies project (15 avril 2021- 1 septembre 2021)
Tunisian Electricity and Gas Company STEG

Study and realization of a digital assistant in Control of electrical energy.
task

- Measure current consumption I in real time.
- Calculate, Save and Display the power consumed
- Calculate and display the cost of consumption
- Developed an Android application to display data on a smart phone.
- remotely controls the various electrical equipment in house with iot technologie

keyword : **IOT, ESP32, EasyEDA, Firebase, Thingspeak, Matlab**
internship

Tunisian National Railway Company (1 juillet 2020 - 31 juillet 2020)
task

- Maintenance of some electric and diesel motors, repair of air conditioning and electrical installation of locomotives

End of studies project

OACA Tunisair (13 février 2017 au 15 juin 2017)

Automation of a luggage delivery carousel

- production of a prototype of a luggage delivery carousel
- automation of a luggage delivery carousel
- Realization of an electronic power supply board
mot clé : **kicad, step 7, logo siemens**

technician internship

design office for electrical installation plans at STEG tunisia
11 janvier 2016 -5 février 2016

task

- architectural study of electrical installation in buildings residential with Autocad software

internship

steg tunisie 12 janvier 2015 - 7 février 2015

task

- visit of electrical energy production station at Metline bizert
- maintenance of the high voltage electrical transformer and study on some type of renewable energy