



Maroun EL KATTAR

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in Maroun EL KATTAR 🖱 <https://marounalkattar.github.io/maroun/>

👤 PROFILE

Hardworking mechatronics engineer currently applying to masters degree, to deeping my knowledge and skills.

🎓 EDUCATION

Bachelor in Mechatronics Engineering,
La Sagesse University-Polytech Beirut
2017 – present | Beirut, Lebanon

BT3 électrotechnique, Foyer de la providence
2014 – 2017 | Salhieh, Lebanon

📜 CERTIFICATES/COURSES

Introduction to self-driving cars,
University of Toronto through Coursera
2022

Solar Energy Systems Overview,
By University of Buffalo through Coursera
2022

Robotics Specialization,
University of Pennsylvania through Coursera
2022

Robotics: Aerial Robotics , Robotics: Computational Motion Planning , Robotics: Mobility , Robotics: Perception , Robotics: Estimation and Learning and Robotics: Capstone

Oracle Database Foundation,
by Learn Quest through Coursera
2022

Improve Your English Communication Skills Specialization,
Georgia Institute of Technology through Coursera
Mar 2022

Microsoft 365 Fundamentals(3 of 3 courses),
By Microsoft through Coursera
May 2022

VEX123
2022

DELFB2, Institut Français in Libanon
Aug 2021

🏠 VOLUNTEERING

Robotshop community, member
2021 – present

Lebanese Red Cross volunteer
2013 – present

- Ambulance driver EMS
- MCI FAT: mass casualty incident
- Member in search and rescue team (SAR)
- Head of station youth department (2015-2016).

Beirut AI, Member
2022 – 2023

Before We Die Club, Founder
2020 – 2021

Before we die club for outdoor extreme activities (canyoning, climbing, camping).

🏢 PROFESSIONAL EXPERIENCE

IMS LABORATORY-Internship, Mechatronics Engineer
Feb 2023 – present | Bordeaux, France
Subject of the internship "Synthesis by loop-shaping of a builder of road profiles"

Mechatronics/ Robotics project
2021 – present

Carry out several projects related to mechatronics, robotics, embedded systems, artificial intelligence, and the Internet of Things (IoT)

La Sagesse University-Polytech Beirut,
Laboratory teaching assistant
Oct 2022 – Dec 2022 | Forn El Chebek, Lebanon

- Assisted the professor by helping the students with the exercises and techniques of the electrical circuit laboratory
- Prepare equipment for lab instructions
- Solo tutorials in the absence of the teacher
- Maintain laboratory equipment

3D Maker shop-Internship, Mechatronics Engineer
Jun 2022 – Sep 2022 | Mar Mikhael, Lebanon

- Design several projects using SolidWorks
- 3D print using Cura, Simplify and Prusaslicer
- Build many projects using Arduino and Raspberry Pi
- Develop knowledge in the mechanical design industry
- Problem solving skills

Oculi-Internship, Computer Vision Research Engineering
Feb 2022 – May 2022 | Nahr El Kalb, Lebanon

- Efficient research
- Write daily reports and organize data presentations
- Work in collaboration with other researchers
- Implement innovative algorithms solutions
- Test the efficacy of products and analyzed the results
- Evaluate skills in python, NumPy, and OpenCV.

Cube3dp-Internship

Jan 2022 – Feb 2022 | Mansourieh, Lebanon

- Evaluate skills in SolidWorks and 3D drawing
- Understanding how 3D printers work
- Detect and repair any 3D printer
- Learn how to manage and coordinate a 3D project with a client
- Manage daily activities, and provide solutions.

Smart Home services, Freelancer
2020 – 2022

- Planning Smart Home Services.
- Energy Management
- Home network
- Home Automation

Electrician technician, Freelancer
2015 – 2017

🧠 SKILLS

C/C++ | Python | Matlab | assembly PIC | Solidworks
AutoCAD | Arduino | Proteus | Logical Circuit | TinkerCad
PLC | Microsoft 365 | OpenCV | nodeRed | Fritzing
LabView | Cura | Simplify | PrusaSlicer

🌐 LANGUAGES

Arabic

English

French

Spanish