

Curriculum Vitae

MOHAMMAD HALLAL

Personal Information

Phone

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Address

Beirut, Lebanon

Languages

Arabic – native

English – C1 Level

Mastered Skills

SolidWorks | 3D Printing | Fusion 360
Inventor Pro | AutoCAD | MATLAB
Python | Computer Vision | Arduino
MS Office | Photoshop | PX4 | ROS
ANSYS | COMSOL | Raspberry Pi

Robotic Competitions

International Competitions:

WRO 2019 Hungary (coach) - WRO
2016 India (participant), FLL Arab
Championships 2016 (1st place,
participant)

Judging Volunteer:

WRO 2019 Lb.

Team Coach:

ARC 2024 (1st place) – MC2 2024 (1st
place) - National Science Fair 2023 (1st
place) – MC² 2023 (1st place) - WRO
2022 Lb. (2nd place) - WRO 2019 Lb.
(1st place) – ARC 2019 – MC2 2017
(3rd place)

Participant:

ARC 2018 – WRO 2017 Lb. (3rd place)
- WRO 2016 Lb. (1st place) - FLL 2016
Lb. (2nd place) - WRO 2015 Lb. (2nd
place) – ARC 2015 (1st place)

About me

A mechanical engineer driven by creativity and continuous learning. I own and run a small 3D printing business and specialize in teaching and coaching robotics, 3D designs, and technology. Enthusiastic about tackling new challenges and expanding into diverse fields.

EDUCATION

Master 2 Recherche | Robotics & Intelligent Systems | 2023 - 2024

Université de technologie de Compiègne (France)

LU Faculty of Engineering (Lebanon)

Diplôme d'Ingénieur | Mechanical Engineering – Structures & Design | 2019 - 2024

LU - Faculty of Engineering III (ULFG3), Beirut

QUALIFICATIONS

Work Experience:

Member of the Reconstruction Project Team in Beirut | Dec 2024 – present

Working as a field inspection and damage surveying engineer

Internships:

ULFG 3 | July 2023 – Sep 2023

DJI – PX4 Quadcopters: assembly, interactive modeling, simulation, testing, & tuning

AAEM Consultant Office | Aug 2022 – Sep 2022

Trainee in Mechanical Engineering field: HVAC for residential and public buildings

Personal Startups:

Hallal 3DP | 2019 - present

3D Printing and CAD Services in Beirut Lebanon

STEM Teaching:

Steam Code, Lycee National Bchamoun | Jun 2024 – Sep 2024

Training Courses to Teachers: Integrating 3D Printing and 3D Modeling in Schools

IEEE, USJ branch, Lebanon | Mar 2023

Intensive Workshop: Basics of 3D Printing and 3D Modeling

Kalimat E-ROBOT Academy | Sep 2022

Workshop: 3D Printed Robots and Mechanisms

Kalimat E-ROBOT Academy | 2021 – present

Robotics, DJI Tello Drones

Lebanese University - Faculty of Engineering III | Nov 2021 – Mar 2022

CAD instructor assistant for the Industrial design course - “Autodesk Inventor Pro”

IEEE, LUFE 3 branch, Lebanon | Oct 2021 – Nov 2021

Online course: 3D modeling for beginners - “Autodesk Fusion 360”

IIET High Schools | 2017 – present

Robotics - 3D Printing - 3D Modeling - Reverse Engineering – Drones – Manufacturing

PERSONAL PROJECTS

Developing a full study for PV Panels cleaning robot | 2023

Developing and upgrading the existing GoLift patient hoist | 2022

Arduino smart home automation system | 2020

ADDITIONAL ACTIVITIES

Vice President of the IEEE, LUFE 3 branch, Lebanon | 2021 – 2023

Member of the Faculty of Engineering student's council | 2019 – 2024

Volunteering leader in the Lebanese Scouting Federation | 2017 – present