

Mohammad Ismail

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Freshly Graduated Mechanical Engineer with a Master's degree in Robotics systems who is innovated, Skilled and enriched with strong analytical abilities and a mechanical foundation to succeed and start his professional career.

EDUCATION

LEBANESE UNIVERSITY FACULTY OF ENGINEERING

UNIVERSITY OF TECHNOLOGY OF COMPIÈGNE

Master's Degree in Engineering-M2 (Cooperative Program)

The **Robotics and Intelligent Systems** Master Program

Relevant Coursework: Nonlinear Control, Fault Tolerant Control, Identification of Dynamic Systems, Advanced Data Analysis, Localization and Planning of Robotic Systems, Optimization.

Hadath, Baabda

Compiègne, France

Sep 2023- Sep 2024

LEBANESE UNIVERSITY FACULTY OF ENGINEERING

Diploma in Engineering

Major in **Mechanical Engineering**

Average: 83.79/100 Rank: top 5%

Relevant Coursework: Thermodynamics, Fluid Dynamics, AC and Heat Transfer, Structures and Materials, Electronics and Electrical Machines, Hydraulics, Thermic Motors, Turbomachinery, Automatic Control, Finite Elements, Automobile, Machining.

Hadath, Baabda

Sep 2019-Sep 2024

TRAINING EXPERIENCE

MODERN ENERGY COMPANY -MEC

Summer Training

- Learned and applied all types of HVAC and Sanitary installations starting from theory then designing and finally the implementation.
- Acknowledged the process of manufacturing of different metallic components used in HVAC and Sanitary works especially ducts, pipes and elbows.
- Mastering my Drawing Skills on AUTOCAD by applying all types of installations on different ranges (apartments-small buildings-Hospital) and learning on a new Software called HAP to calculate the Heat Loads.
- Participating at different workshops and sites.

Hart Hreik, Beirut

Jun 2023 – Sep 2023

MOST S.A.P.L

Part Time Summer Training

- Practical Training on different metal processing machines such as Cutting, Bending, Lathe, Drilling, Milling and CNC machines.
- Engagement in Grain and Fodder silos project regarding design, manufacturing and assembly.

Airport Area, Beirut

Aug 2022 – Sep 2022

SMARTECH TECHNOLOGIES S.A.L

Part Time Summer Training

- Design of a SMARTECH Suntrack (Solar Power Controller MPPT) metallic case .
- Redesign a Hitachi Inverter metallic case.

Hart Hreik, Beirut

Aug 2022 – Sep 2022

UNIVERSITY PROJECTS

FAULT TOLERANT CONTROL OF A 4WD EV: WHEEL MOTOR AND ACTIVE FRONT STEERING FAULTS

MASTER THESIS

- Using a Nonlinear model of a 4 IWM EV on MATLAB, Designed and implemented an Active Fault Tolerant Control strategy to deal with steering faults for a Steer by Wire (SBW) mechanism composed of a robust control architecture that compensates passively the faults and a Fault Diagnosis and Detection module based on an Adaptive observer to identify, isolate and estimate the steering faults. Finally, and using a previous FDD model for IWM faults, an isolation matrix was established between all actuator's faults.

Mar 2024-Sep 2024

NON-PADDY FIELDS PRECISION PLANTER

A complete design of a precision planter designed to open a furrow in a non-paddy field, single out the seeds by a mechanical gear transmission system then cover the soil with a tamping system.

Oct 2022-Feb 2023

CROSS FLOW HYDRAULIC TURBINE

- Adjustment of the specifications and design of a cross flow hydro turbine of a minimum flow of $0.1\text{m}^3/\text{s}$ and a head range of 3-20m.

Mar 2022-June 2022

TECHNICAL SKILLS

AUTOCAD, SOLIDWORKS, FUSION 360, INVENTOR, COMSOL, ANSYS, C, C++, PYTHON, MATLAB, PLC, ROS, MS WORD, MS EXCEL, ARDUINO, PIC18

LANGUAGES

Native Arabic, Good professional proficiency in English and average working proficiency in French.

ADDITIONAL

INTERESTS: Electric Vehicles, Drones, Aircrafts, Data Analysis and AI, Machining.

AWARDS: 3rd place in PAYA league Competition in Tehran, Iran 2018.

STUDENT WORK: Cloth store Management-BYBLOS Sports Wear