Lina Kassem

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Education

Lebanese University   Beirut, Lebanon
S.B. in Electrical and Electronics Engineering (Power and Automation Engineering)   June 2024
Coursework in Industrial Automation, Mechatronics, Automation, Machine Learning, Power Electronics, Electrical Machines, Microprocessor, PLC Lab, Microcontroller Lab, Computer Science, Mechanics Workshop, Industrial and Architecture Drawing.

Sohmor High School   Beqaa, Lebanon
Lebanese Baccalaureate. General Sciences.   June 2019

Personal Projects and Experiences

Fire Detection and Alarm   Beirut, Lebanon
Mini Project   June 2022
Supervised by a professor

- Construct of a circuit of Arduino and sensors.
- Implement the code to read the temperature and gas levels from the LM35 and MG-7.
- Simulate the circuit using TinkerCAD.

Wall Climbing Cleaner Robot   Beirut, Lebanon
Supervised by a professor   2023

- Design and fabricate a robot that can climb and clean vertical surface.
- Build a robot that can climb faster than the suction based robot.

Electrical Network: Dimensions and Operational Analysis Mini Project.   Beirut, Lebanon
Supervised by a professor   2023

- Choosing transmission lines and transformers for the implementation of an electrical network.

House Electrical Installation   Beirut, Lebanon
                                                             2022
- Complete design and realization of the electrical installations of a house using Arduino.

Global Warming Machine Learning Mini Project.   Beirut, Lebanon
- Cleaning data and predicting future mean surface temperature values in Lebanon using   2023
  Linear Regression.

Additional

Aspire Leaders Program – Founded at Harvard   2023
Completed 3 stages.

- A program where students access self-assessment tools, fully funded Harvard course material.

Cisco Networking Academy   2022
- CCNA2: Routing and Switching Fundamentals.

Skills

Technical: Well understanding of PLC Programming ladder diagram and sequential function chart. Programming in Python (Intermediate), C and C++. Knowledge of Assembly Language for the 8085 and MIPS. Experience with MATLAB (Beginner – currently taking online course), AutoCAD, Proteus and Microsoft Office Suite.

Languages: Arabic (Native), English (Bilingual Proficiency), French (Intermediate) and Ukrainian (Basic Skills).