Nour Dbouk

M2 in Robotics & Intelligent Systems | Electrical Engineer

Electrical Engineer with a Master's in Robotics & Intelligent Systems, passionate about electrical design and office-based engineering work, seeking to grow professionally within a dynamic engineering design firm.

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EDUCATION

M2 – Robotics & Intelligent Systems
Université de Technologie de Compiègne & Lebanese University
09/2024 - 09/2025 *Beirut*

Electrical & Electronics Engineering
Lebanese University - Faculty Of Engineering
09/2019 - 09/2025 *Hadath-Beirut*

WORK EXPERIENCE

R&D Electrical Engineer
Innovating Green Technology (IGT)
08/2021 - 09/2024 *Beirut*

Achievements/Tasks

- Plan, design, and manage solar PV systems, including feasibility studies and load analysis.
- Develop 2D/3D electrical designs and documentation for engineering and R&D projects.
- Conduct research on sustainable energy solutions, contributing to biodiesel initiatives and proposal writing.

Integrated Circuits Design Training
Synopsys & SiliconCedars
06/2025 - 09/2025 *Beirut*

Achievements/Tasks

- Hands-on training in digital & analog IC design using Synopsys tools (Custom Compiler, IC Validator, RTL, LVS, DRC).
- Worked on RTL to GDSII flow, layout, and physical verification.
- Applied low-power design, mixed-signal circuits , and Linux scripting for IC workflows.

Electrical Engineering Intern
Port of Beirut
08/2024 - 09/2024 *Beirut*

Achievements/Tasks

- Power plant operations: diagnostics, load sharing, and maintenance.
- Elevator control systems troubleshooting.
- Lightning Systems: LED lighting upgrades and layout optimization.
- Solar energy site evaluation and feasibility studies.

Sustainable Energy Intern
UNDP
07/2022 - 08/2022 *Lebanon, Beirut*

Achievements/Tasks

- Designed PV systems with Helioscope and modeled solar water heating systems using POLYSUN.
- Led a solar-powered telecom site project covering both technical and financial aspects.
- Completed soft-skills and project management workshops through Engineering Guidelines.

SKILLS

AutoCAD 2D/3D | Machine Learning | MATLAB | Proteus | C / C++ /SQL | PLC | OOP | Ecodial | Oracle database | Python | Petri Nets | Arduino

ACADEMIC PROJECTS

Thesis - Generative Adversarial Networks for Metal Surface Fault Detection

- Developed and compared multiple GAN architectures (DCGAN, CGAN, ACGAN, WGAN-GP) to generate synthetic defect images, address data imbalance and improve ResNet50-based classification accuracy across 13 classes.

Time-Frequency Feature Extraction & Parameter Estimation

- Implemented CWT and Morlet wavelets to extract texture features for image classification and signal analysis using MATLAB.

Autonomous Patrolling Robot

- Raspberry Pi robot with obstacle avoidance, email alert system, and local video capture.

Surveillance Infrastructure Enhancement for SafeHorizon

- Simulated Proposal Development and Technical Consulting for AI-driven robotic surveillance.

Low-Voltage Electrical Design using Ecodial

- Designed a full LV system (SLDs, cable sizing, voltage drop, IEC compliance)

Single Axis Solar Tracker

- Designed and simulated an automatic solar tracking system for improved photovoltaic efficiency.

Solar PV for Telecom Post

- Designed and analyzed solar system for telecom site, including feasibility

CERTIFICATES

AI Fundamentals with IBM Skills Build, Intro to Data Science (08/2024)

Cisco CCNA1 , CCNA2, CCNA3 (06/2022 - 05/2023)

Single Line Diagram (09/2023)

Youth Leadership Program (YLP 7) (07/2021)

MATLAB (03/2021)

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Full Professional Proficiency

French
Limited Working Proficiency

INTERESTS

Drawing | Reading | Hiking