

# NOUR BAALBAKI

Electrical Energy Engineer | Certified Energy Manager

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Nationality: Lebanese

Tel.: +9613107536

Marital Status: Single

Address: Beirut, Malla-Lebanon

Email: nourbaalbaki88@gmail.com

Date & Place of birth: 01/04/1988, Beirut-Lebanon

## EDUCATION

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**Master in Energy Studies, American University of Beirut, Lebanon** 2017 - 2020

GPA: 84 out of 100

**Master Research in Electrical Grids, École Polytechnique de Montréal, Canada** 2011 – 2012

GPA: 3.30 out of 4.00

**Bachelors in electrical Power & Control Engineering, Beirut Arab University, Lebanon** 2006 – 2011

GPA: 3.21 out of 4.00

**BAC Scientifique Français, Specialty: Biology, Lycée Franco-Libanais Verdun, Lebanon** 1992 – 2006

## WORK EXPERIENCE

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- **Energy Engineer, Wee Pros GmbH, Lebanon** 8 April 24 – 31 Dec 24
  - Energy auditing for the wastewater treatment plants in Lebanon, project funded by GIZ Lebanon,
  - Delivering trainings for the Water Establishment staff.
- **Electrical Engineer Volunteer, Engineering Ministries International, Worldwide** 13 Oct 22 – present
  - Participate in TEU project in South Soudan, True Vine Church in Zahle-Lebanon, Ethiopia, Uganda, and Guinea,
  - Provide one-line diagram and electrical site plan.
- **Instructor, Beirut Arab University, Lebanon (part time)** 5 Sep 22 – 6 Jan 25
  - Digital Electronic and Electric Circuit Lab Supervisor.
- **Facility Manager, Barakat Contracting, Lebanon** 1 Feb 24 – 8 April 24
  - Operation and Maintenance of the data center of Blom Bank in Broumana.
- **Operation Manager, Green Arms, Lebanon** 18 Sep 23 – 1 Jan 24
  - Develop solar PPA project pipeline,
  - Design, Implement, and Maintain solar PV electrical systems.
- **Research Analyst, SMAP Energy, Lebanon** 1 April 22 – 5 May 23
  - Green Hydrogen Production Research in the MENA Region,
  - Simulation and Analysis of Renewable Energy Projects.
- **Business Developer, Enechange Insight, Lebanon** 7 Feb 22 – 5 May 23
  - Linking Investors to Developers.
- **Solar Engineer, Asaco General Trade & Contracting, Lebanon** 27 Jun 21 – 31 Jan 2022
  - Monitoring work progress on site, follow up and update project plan schedule,
  - Coordinating submittals with consultants,
  - Commissioning electrical equipment in house and on site,
  - Preparing technical bids (providing design, BOQ and later shop drawings) and administrative,
  - Conduct Energy Audit to RIM facility with REESTART program.
- **Electrical Engineer, Advanced Integrated Solution, Lebanon** 1 Apr 21 – 7 July 21
  - Competent measurement and bill preparation from AutoCAD drawings,
  - Design Electrical layouts,
  - Estimate projects' material and labor costs,

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- Prepare technical submittals and proposals,
- Prepare purchase orders,
- Assist installation, testing and commissioning of electrical systems,
- Prepare and submit weekly/monthly reports.
- **Senior Electrical Engineer, Mass Advanced Consulting Engineers, Lebanon** 23 Nov 20 – 31 Dec 20
  - Design electrical drawing: lighting, power, low current using Saudi standards,
  - Develop load calculation, and BOQ,
  - Design panels: medium and low voltage.
- **Research and Development Engineer, The Little Engineer, Lebanon** 4 Apr 16 – 25 Aug 16
  - Design robotic games,
  - Tutor kids about the world of Robotics and renewable energy,
  - Introduce and prepare kids to the world of science, engineering, and mathematics.
- **Senior Electrical engineer, Prolec S.A.R.L, Lebanon** 10 Feb 14 – 30 Mar 16
  - Manage the designing, execute, and operate construction projects,
  - Manage the project operation and maintenance,
  - Perform shop drawing and as built,
  - Study and set tender pricing.
- **Project Engineer, Beta Engineering, Lebanon** 18 Apr 13 – 7 Feb 14
  - Manage the design of the water facility and control project,
  - Handle the operation and maintenance as well as auditing of the water facility project.

## TRAINING EXPERIENCE

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- **Participant in Competitions, HULT PRIZE, Lebanon** 8 Jan 18 – 26 Jan 18
  - Designed solution for environmental challenges: developing fiber for concrete construction.
  - Won the 1<sup>st</sup> place regional competition.
- **Electrical Engineer Trainee, The Association of Energy Engineers, Lebanon** 8 Feb 18 – 12 Feb 18
  - Attended a comprehensive training program of the certified energy manager,
  - Passed the certified energy manager international exam,
  - Became a member in the Association of Energy Engineers.
- **Participant in Competitions, American University of Beirut, Lebanon** 8 Jan 18 – 26 Jan 18
  - Designed solution for health challenges in crises in collaboration with Boston University and Johns Hopkins University (won the 2<sup>nd</sup> place award),
  - Participated in the humanitarian hackathon (won the 2<sup>nd</sup> place),
  - Visited the refugees' camp in Bekaa-Saad Nayel.
- **Electrical Engineer Trainee, Sabeco & Partners, Lebanon** 5 Jul 10 – 31 Jul 10
  - Attended site visits,
  - Prepared shop drawings,
  - Supervised and executed projects.
- **Electrical Engineer Trainee, S.&A.S.Co.Ltd, Lebanon** 1 Feb 10 – 26 Feb 10
  - Had Hand-on training on using soldering irons,
  - Participated actively in full functional test.

## TECHNICAL COMPETENCES

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**CYMDIST software:** Simulation of power distribution, network planning

**CYMTCC software:** Coordination of protection, equipment failure

**EMTP-RV software:** Simulation in the time domain: electromagnetic transients and transient electromechanical and power flow study

**MATLAB software:** Writing and understanding a M-file and work on Simulink

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**PVSYST software:** simulation of solar power systems

**ETS-KNX software:** home automation application

**ArcGIS software:** Geographic information system for working with maps and geographic information

**Other programs:** Proficiency in Ecodial, Multisim, Etape, PSPICE, Dialux, Calculus, ORCAD, AutoCAD, Revit, C language, VHDL language, @RISK, PrecisionTree, MS Project, and Microsoft Office

## CERTIFICATES

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- Certified Energy Manager, *The Association of Energy Engineers* 2018
- BMS (Building Management System), *EduDMG Institute* 2014
- SCADA 1 EENG 417 (Supervisory Control and Data Acquisition), *EduDMG Institute* 2014
- Beckhoff twincat software introduction 2013 (software introduction, products overview, applications and simulations) 2013
- AVR1&2 microcontrollers 2007
- OVPLAN Oventrop software for Heating and Water Supply Calculations, *Zmerly* 2024
- Facility Management certification, The Order of Engineers and Architects 2025

## ACTIVITIES

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- **Volunteer-Board Member**, *Green Leaders* Dec 24 – Present  
Green Leaders is a non-governmental organization dedicated to advancing sustainable development and championing environmental stewardship.
- **Volunteer-Onboard Member**, *Catalyst2030* May 23 – Present  
Catalyst 2030 is a fast-growing global movement of people and organizations committed to advancing the UN Sustainable Development Goals (SDGs) by 2030.
- **Volunteer**, *Lebanese Red Cross (LRC)-Youth*, Lebanon Jun 14 – Jan 20  
A humanitarian organization-an independent national society.
- **Volunteer-Onboard Member**, *Association of Energy Engineers-Lebanon Chapter* Mar 17 – Present  
AEE is a Non-profit organization dedicated to serving our members and other industry professionals who are working to improve energy efficiency to save energy, reduce GHGs, make buildings perform better, and help reach global goals for Net-Zero.
  - Communication representative of Aee Lebanon Chapter
  - Supervisor and Coordinator of Aee Internship Program
- **Volunteer**, *Dialeb*, Lebanon Nov 16 – Present  
A non-profit organization founded in 2011 which aims to promote diabetes care and prevention and support research in search for a cure. Dialeb works to promote healthy lifestyles and spread awareness about diabetes in order to make living with the disease more manageable for all those affected and their families.
- **Volunteer**, *Junior Chamber International (JCI)*, Lebanon Sep 16 – Sep 17  
A multinational non-profit international NGO based on volunteerism that seeks to empower youth and create positive change.
- **Member in Astronomy Club**, *Beirut Arab University*, Lebanon 2008 – 2010  
Club that participated in many Astronomy ceremonies including IYA international year of astronomy in Unesco.

## LANGUAGE

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**Arabic** – native language

**French** – fluent (writing and speaking)

**English** – fluent (writing and speaking)