

JOE AKL KORBANE

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OBJECTIVE

Seeking a full-time career where I can manage a team, understand the equipment, improve and optimize systems, in which I can apply my experience in energy, renewable energy, industrial machinery, research, training and my fluency in English, Arabic and French

EXPERIENCE

From 10/20 to 03/21	Chief Electrical Engineer La Société Industrielle d'Acier du Bénin (Groupe Hage) <ul style="list-style-type: none">Leading a group of electrical techniciansSupervising and maintaining automated iron machinesDesigning electrical boards for machines	Cotonou, Bénin
From 07/20 to 10/20	Solar Consultant and Trainer Rise2030 (Non-governmental Organization) <ul style="list-style-type: none">Did consulting services in the field of Solar EngineeringPrepared and delivered lectures related to Solar Energy and Solar Power SystemPerformed training on site and assisted trainees to install Solar Power System	Beirut, Lebanon
From 06/18 to 01/20	Electrical Design Engineer Crowd Powered SAL <ul style="list-style-type: none">Designed solar power systems for businesses and customersPrepared commercial, technical offers and project costingDid technical presales, customer acquisition and support	Beirut, Lebanon
From 09/15 to 04/18	Instructor in the Electrical Engineering Department American University of the Middle East <ul style="list-style-type: none">Electric Circuits Analysis/Digital Circuits/Digital ApplicationsElectronic Measurement Techniques LabElectronic Devices and Design LabIntro. to Digital System Design LabIntro. to Control Systems Lab <p>Research Projects:</p> <ul style="list-style-type: none">Exoskeleton arm design for rehabilitation (in collaboration with local health care centers)EEG mind controlled smart prosthetic arm	Eqaila, Kuwait
From 09/16 to 09/17	Laboratory Coordinator in the Electrical Engineering Department American University of the Middle East <ul style="list-style-type: none">Coordinated the Electronic Measurement Techniques Lab CourseWorked on preparing files needed for ABET Accreditation	Eqaila, Kuwait
From 09/12 to 09/14	Teaching and Research Assistant American University of Beirut <ul style="list-style-type: none">Worked on a research topic related to optimal power flow with storage and renewable energy integrationAssisted in the labs dealing with Electronics, MATLAB, Spice, Lab View and Computer OrganizationSupervised final lab project (Car Auto-Wash Station)	Beirut, Lebanon
From 07/11 to 09/11	Electrical Engineer Intern Power and Telecommunications Company <ul style="list-style-type: none">Participated in the site daily way of lifeFollowed up the execution of all shop drawings for the undergoing electrical works at the site	Sin El Fil, Lebanon

From 07/10 to 09/10	Electrical Engineer Intern Construction Industrial & Technical Equipment Co. S.A.R.L. <ul style="list-style-type: none"> Installed generating sets, laying cables, transformers and MV substations Did service and maintenance of generating sets Installed fire-fighting system 	Dora, Lebanon
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EDUCATION

From 02/18 to 09/19	American University of Beirut Professional Diploma in Green Technologies / Energy Final Project: Beirut Digital District Solar PV System Design & Analysis GPA over 4: 3.72	Beirut, Lebanon
From 09/12 to 09/14	American University of Beirut Master in Electrical and Computer Engineering, with Emphasis on Energy and Power Systems Minor in Machine Intelligence Master's Thesis: Optimal Power Flow with Storage Integration GPA over 4: 3.64	Beirut, Lebanon
From 09/07 to 06/12	Notre Dame University - Louaize Bachelor in Electrical Engineering Senior Project: Solar Power System for Electric Vehicle Motor GPA over 4: 3.57 (with high distinction)	Zouk Mosbeh, Lebanon
From 09/94 to 06/07	Beirut Evangelical School for Girls and Boys High School Diploma in General Sciences (rank 1)	Rabieh, Lebanon

PUBLICATIONS

Journal papers:

- EEG mind controlled smart prosthetic arm – a comprehensive study, Advances in Science, Technology and Engineering Systems, vol. 2, no. 3, pp. 891-899, 2017.
- Robust multi-period OPF with storage and renewables, IEEE Trans. Power Syst., vol. 30, no. 5, pp. 2790-2799, Nov. 2014.

Conference papers:

- A wearable rehabilitation device for paralysis, IEEE International Conference on Bio-engineering for Smart Technologies, Paris, France, 2017.
- Biometric database for human gait recognition using wearable sensors and a smartphone, IEEE International Conference on Bio-engineering for Smart Technologies, Paris, France, 2017.
- EEG mind controlled smart prosthetic arm, IEEE International Conference on Emerging Technologies and Innovative Business Practices for the Transformation of Societies, Mauritius, 2016. (Best Paper Award)

SKILLS

Languages: Fluent in English and Arabic with basic knowledge in French (writing, reading and speaking) and Spanish (beginner)

Computer Skills: MS Word, Excel, PowerPoint, Internet use, AutoCAD, SAM, PVsyst, MATLAB, Spice, Quartus, Lab View, Ecodial, Dialux, C++, PLC programming, etc....

Soft Skills: Leadership, Communication, Team-Building, Organizational, Public Speaking, Presentation, Research, etc....

MEMBERSHIPS, VOLUNTEERING and CERTIFICATIONS

- Certified Member of Order of Engineers and Architects (OEA)-Beirut since April 2013
- Volunteer in Lebanese Oil and Gas Initiative (LOGI) since July 2019
- Certificate of accomplishment in Artificial Intelligence in Energy: An Introduction-European Institute of Innovation and Technology (issued April 2020)
- Certificate in AutoCAD 2D (issued April 2012)
- Certificate of participation in Webinar on Oil and Gas Operations in Environmentally Sensitive Areas-United Nations Environment Programme (issued November 2019)
- Certificate of participation in Webinar on Chemicals and Waste Management in the Oil and Gas Sector-United Nations Environment Programme (issued March 2020)

REFERENCES

Available upon request