

CURRICULUM VITÆ
FREDDY MAKHOUL
Electrical Engineer

I. Personal Data:

- Full Name: Freddy Fadi MAKHOUL
- Date & Place of Birth: April 13, 1994, Bauchrieh, Lebanon
- Mailing Address: Biakout, Lebanon
- Mobile : (+961) 70 743131 /Email : freddy-makhoul@hotmail.com

II. Education:

Ecole Supérieure d'Ingénieurs de Beyrouth - ESIB, Lebanon Oct. 2018 – Jun. 2020
Master of Research,
Major: Electrical Engineering

Holy Spirit University of Kaslik - USEK, Lebanon 2012 – 2017
Bachelor in Engineering,
Major: Electrical and Electronic Engineering

Central College Jounieh – CCJ, Lebanon 1997 – 2012
Lebanese Baccalaureate
Major: General Science.

III. Experience:

Electrical Design Engineer, **Sakr Power Generation** Apr. 2019 – Mar. 2020
1year

- Prepare the project planning.
- Receive data about the project from Electrical Design Supervisor as per contract.
- Prepare the shop drawing of the panel board.
- Prepare the bill of materials of components needed and generate all needed ERP items.
- Start the design according to specifications and submit the shop drawing and bill of materials to Electrical Design Supervisor for approval.
- Transfer the shop drawing & the part list to Production Department & Production Support Departments after final approval.
- Test the new designed products after production and intervenes for adjusting in case of errors.
- Prepare the software and programs the control module, PLC & M-vision...
- Support the Sales & Sales Support Departments with technical documents & feasibility studies.
- Select, conduct and monitor testing of new components and analyse the test results then generate, check and approve the final report.
- Generate and maintain all standard products lists, documents and calculations forms.

Electrical Design Engineer, <u>Proquest Engineering & Consulting</u> In collaboration with Bouyges Construction MEP design projects (Offices, Hospitals, Hotels, Banks and Buildings)	Feb. 2018 – Feb. 2019 <i>1 year & 1 month</i>
<ul style="list-style-type: none"> • Design, Calculation (BOM) • Shop Drawings (Low Voltage, High Voltage, CCTV, Fire System) 	
Final Year Project, <u>USEK</u> Feasibility Study Sponsored by Ecosys ITG Holding on Solar Trackers	Feb. 2017 – Dec. 2017 <i>11 months</i>
<ul style="list-style-type: none"> • Design, Calculate, Simulation (PVSyst) & Install commercial sized PV system • Financial Analysis between Fixed and Tracking Solar System • Project on Site: https://www.youtube.com/watch?v=dk2zeZTHUeU 	
Trainee, <u>Mitsulift</u>	August 2016 <i>6 weeks</i>
<ul style="list-style-type: none"> • General introduction (elevator, escalator and revolving doors) • Training – Escalator Maintenance and Communication Skills • Escalator design, installation and sales department. • Research: - new product line (escalator: cost & energy efficient) - new technology for elevators (double deck elevator) 	
Trainee, <u>Younes Bros</u>	June 2016 <i>6 weeks</i>
<ul style="list-style-type: none"> • General introduction: Generators • Panel board: Design and installation • Process control: Concept design and installation • Testing department 	
Trainee, <u>Debbas Industries S.A.L.</u>	August 2015 <i>5 weeks</i>
<ul style="list-style-type: none"> • Panel boards design and assembly • Panel boards materials and components 	
Trainee, <u>Mazda S.A.L.</u>	January 2015 <i>2 weeks</i>
<ul style="list-style-type: none"> • Multimedia (electronic components and sound system) • Automotive systems (car engine) 	

IV. Seminars

Technical Training

- DSE (Gen-set Controller)
- Stamford (Alternators)
- DCL international Inc. (Exhaust System)
- EATON (Energy Storage/Micro Grid, Safe Adaptive Evacuation, PXR Digital Switchgear Solutions, UPS Design)

Trauma Healing Camp

9, 10 February 2019

Lira Program 13 organized by the Ministry of Industry -	13, 14 & 16 September 2017
Internal Beirut Energy Forum, Le Royal - Dbayeh	18, 19 September 2017

V. Portfolio

President of a youth group, **Mariam Apostolic Movement** December 2019 – Till present
Spiritual, Mental & Physical topics are tackled weekly.

Engineer, **Hult International Business School, U.A.E** March 2018
Electric Roads: Innovative idea to install embedded material on Highway to generate electricity from wasted energy *1 week*

- Qualified as Top 1 in USEK Competition
- Participate in HultPrize Competition (45 teams from numerous countries)

Engineer, **Alfa & Ericsson** February 2017
Alfa & Ericsson IoT Competition (Rank: 4th place) *4 weeks*

- Design innovative product integrated with Alfa network & Internet of Things
- Topic of my project: Smart Monitoring Electricity Consumption

Engineer, **Gitex Exhibition, U.A.E** October 2016
Students Lab Competition at World Trade Center Exhibition *1 week*

- Participate in GITEK Exhibition (20 teams from numerous countries)
- Topic of my project: Smart Monitoring Parking

Engineer, **USEK** March 2016
Design and built a prototype container for refugees in Lebanon *1 week*

- Design & Install offline electrical system for the prototype container

VI. Special Skills

Language:

- Arabic - *Native language,*
- French - *DELF B1,*
- English - *TOFEL ITP Certificate*

Computer Literacy:

- Word, Excel, PowerPoint, FrontPage.
- AutoCAD, Revit.
- DiaLux, Ecodial, NI-LabVIEW, MatLAB.
- Programming – Microcontroller (Assembly Language)
Real Time Operating System – PLC (Ladder, Grafcet, Structure Text)
Operating System - High-level language (JAVA, C/C++)
Field Programmable Gate Arrays - FPGA