

AHMAD JABER

ELECTRO-MECHANICAL ENGINEER



: Lebanese



: Sfeir, Mount Lebanon, Lebanon



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PERSONAL STATEMENT

Having a 4+ Years experience in the field of Building Management System (BMS) Design, Programming, Testing, and Commissioning. A highly motivated and hardworking individual who seeks an opportunity to execute his skills in the field of Project Engineering, Management, Project support services, Operation & Maintenance.

EDUCATIONAL BACKGROUND

- **Master's Degree in Electrical Engineering.** 2017-2019
Lebanese International University, Faculty of Engineering, Beirut, Lebanon.
Related coursework:
Industrial System Automation and Control Power Distribution System
Power Generation and Control Power Transmission System Electric Drive
- **Master's Degree in Field Electro-Mechanical Engineering.** 2016-2017
Lebanese University, Faculty of Sciences, Beirut, Lebanon.
Related coursework:
PLC Electrification HVAC Plumbing Machines Renewable Energy
Building Management Systems LabVIEW Embedded System
- **Graduate Degree in Telecom** 2015-2016
Lebanese University, Faculty of Sciences, Beirut, Lebanon.
Related courses:
Digital Communication Networks Digital Signal Processing Power
Electronics Embedded Systems Optical Communication Antennas and Free
Propagation Digital Image Processing Integrated Circuits
- **BS Degree in Electronics** 2014-2015
Lebanese University, Faculty of Sciences, Beirut, Lebanon.
Related courses:
Circuit Design Modeling Technique Instrumentation Lab
Electro techniques Analog Communication Signal Processing
Microprocessors Logic Systems

WORK EXPERIENCE

Building Management Systems (BMS) and Control Engineer

Khater Engineering and Trading S.A.L – Lebanon

March 2017 - Present

Major Projects Involved:

- Algorithm (Pharmaceutical Factory) - Zekrit
- U&V Entertainment Center - Souks of Beirut
- University of Balamand Medical Center - Balamand
- Le Royal Hotel - Dbayyeh
- SP1 Water Front (Business Park) - Dbayyeh
- Abdel Wahab 618 (Residential Buildings) - Ashrafiieh
- Ghandour Residential Building - Beirut
- Ferrum Lot 5 - Beirut
- Lebanese American University Library- Byblos
- Notre Dame University - Barsa
- Middle East Hospital - Protective Environment Rooms + Operation Rooms - Bsalim
- More than 30 small projects (Villas, clubs, and schools...)

Core Skills & Strengths:

- Hands on technical knowledge and experience in Building Management System.
- Confident to take any Job related to Quality Control, inspection of Installation, Testing & Commissioning inspections of all BMS Services,
- Coordinating with Equipment suppliers for Technical support, Troubleshooting and resolving the issues,
- Checking the drawings and documents used at site for approvals and compliance with project requirements,
- Ensuring the all works is carried out as per the approved SHOP drawings,
- Programming & Testing of Sequence of operation of any system controlled through BMS.
- Interpersonal, Team work & Leadership Skills ,
- Quick learner

Key Responsibilities in BMS Design/Project engineering:

- Designing of Building Management System based on IFC & client shop drawings and end user requirements.
- Preparing technical/Engineering submittals, material submittals, Interface Control Documents, Operation and Maintenance Manuals, Training Manuals, Graphics submittals, Inspection Test Plans and Functional Test Procedure documents.
- Response to the consultant comments for Submittals Documents /Manuals.
- Preparing I/O point schedule, Sequence of Operations, Field equipment selections (Valves, Actuators, Damper actuators, field sensors, control panels etc.) based on tender specifications & design data from the contractor.
- Selection of DDC based on application I/O count, designs system architecture diagram.
- Preparation of pre-functional check lists, functional checklists, graphics checklists and tracking site activities.
- Checking and verifying of the as-built DDC panel drawings and BMS installation shop drawings.

Key Roles in Project Construction:

- Accountable for Construction of Electrical/Building Management system related installations and timely execution of Inspections, snagging & Clearance to the client /Main Contractor.
- Ensure that all BMS equipment's Controllers, Sensors, Valves, Dampers, Actuators have been installed, tagged aligned and correctly wired in Accordance with the approved drawing and manufacturer's instruction.
- To guide Supervisors, Electricians/Technicians to work in proper way. (As per planned route).
- Build and maintain Customer relationship / Ensure Customer satisfaction.
- Coordinating amongst various ELV system suppliers/Sub-Contractors and liaising with main contractor for Interface connections for Third Party systems,
- Conduct materials inspection by its documents or with its physical condition / match with client specification.
- Carrying out the works related to BMS field devices installations as per the approved drawings and offer for Inspection to get approval from Consultant.
- Ensure completion of all Documentation reference testing report, as built diagram, inspection documents.

Key Roles in Testing & Commissioning:

- Accountable for commissioning of Building Management System Equipment's, which includes AHU, FAHU,BCU/FCU,VAV/CAV/TMD, Chilled Water Pumps, Fans, Electric Water Heater, Domestic Booster Pumps, Sump Pumps, Variable frequency drives, Smoke Management System, HVAC systems.
- Programming and Engineering of Automation Stations and PLCs using Siemens softwares (ABTsite, TIA PORTAL, Xworks and Desigo CC).
- Programming and Engineering of Meters (Water, Electric, and gas) using IZAR center software.
- Knowledge of third party Integration like VAV, UPS, FCU, VFD, FACP, LCPs, Chillers, Boiler , Energy Meters using various protocols Modbus-RTU, Modbus-TCP/IP, Bacnet/Lon, Bacnet/IP, Bacnet/MSTP, and KNX.
- Ensure proper installations are done as per the approved design drawings and project specifications. Inspecting installations, Pre commissioning & commissioning of BMS Systems.
- Involved in the planning of HVAC equipment BMS start-up, operation. and commissioning progress meetings also discussing about site readiness/co-ordination with consultants & Main-contractors
- Giving Training for the Maintenance (Operator) and contractor teams with O&M Documents.

Specialized Systems & Softwares:

- Siemens Xworks Plus
- Siemens Desigo CC
- Siemens ABT SITE
- Siemens Tia Portal
- Siemens ACS TOOL
- National Instruments LabVIEW
- ETS – KNX
- Arduino
- MatLAB
- C & C++ Languages
- Microsoft Office (MS Word, MS Excel & MS PowerPoint)
- ABB Control Builder and e-design (PLC and electrification)
- AutoCAD
- Design Builder (HVAC)
- Fatek Ladder Logic and PM designer (Graphics)

Training sessions:

March 2017: Six months of Training at Khater Engineering and Trading SAL on SIEMENS Building Management Systems comprising the followings:

- XWP Desigo Programming
- Siemens Lab Solution
- Site Engineering and Execution

SKILLS & KNOWLEDGE

- **Building Management System (BMS):** Full understand of computer-based control system installed in buildings that controls and monitors the building's mechanical and electrical equipment such as heating, ventilation, air conditioning, lighting, power systems, fire systems, and security systems.
- **Heating, Ventilation, and Air Conditioning (HVAC):** Familiar with systems that work as a climate-control to ensure that humidity and temperature are properly regulated in a living environment. A basic knowledge of HVAC systems includes the principles of system operations, an understanding of the factors that determine the capacity of the equipment and also the various components that make up a HVAC system.
- **Machines :** Well understand of the principle of operation of various types of motors and generators
- **Plumbing:** Sufficient knowledge of processes used to treat water and recycle it.

CERTIFICATIONS

- **National Instruments** - Certified LabVIEW Associate Developer (CLAD) - 2017

LANGUAGES

- English: Fluent-reading, writing & speaking
- Arabic: Native language

REFERENCES

- **Emile Lammam**
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