WEAAM AL ASHKAR
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PROFESSIONAL SUMMARY

I am a Building Automation System Engineer with great passion for tackling challenging and complex projects. I am holding an electronics & communications engineering degree and currently working as Technical Sales Engineer for Gulf Engineering Company (Building Automation Systems department) which is the only Siemens Building Technologies solution partner in Kuwait. I have been at my current position for more than one year. Prior to that, I worked for Zamil Controls; under Zamil Air-conditioners which is also one of the pioneer Siemens partners in Saudi Arabia; for more than 7 years as Building Automation Systems design and estimation engineer, thus I have 8+ years of experience in efficient estimating & designing of Building Automation Systems with excellent troubleshooting & problem solving capabilities. Moreover I am experienced in estimation & design of Motor Control Center & Motor Starter panels in addition to Lighting Control Systems with the ability to handle multiple big projects.

WORK EXPERIENCE

Control Systems Technical Sales Engineer   Feb 2019 - Present
Gulf Engineering Company • Al Rai

- Prepared optimized design for Building Automation System based on projects specifications and requirements using Siemens Building Technology products (including system architecture, controller selection and sizing, valves and actuators sizing and selection, field instruments selection, etc...).
- Prepared the quotations and commercial offers for Building Automation System.
- Prepared Technical Offers for Building Automation System (including system architecture and riser diagram, bill of materials, input/output list, control schematic diagram, instruments datasheets, sequence of operation, compliance sheet, etc...).
- Supported Consultants in preparing tender input/output schedules for Building Management System (Building Automation System)
- Designed efficiently lighting control systems (Based on different lighting control protocols (KNX, DALI, DMX,...)).
- Prepared Technical and commercial offers for Lighting Control Systems presenting Siemens Gamma products.
- Generated a customized Costing sheet for Kuwait market which accurately and efficiently estimate Building Automation Systems and Lighting Control Systems projects costs.

Building Automation System Design & Estimation Engineer   Jan 2011 - Jun 2018
Zamil Controls (Zamil Air-conditioners) • Dammam

- Developed an estimation sheet for more efficient & accurate quoting process which increased the number of quoted project per year by 20-30% especially for tender projects.
- Accurately & efficiently designed HVAC controls and Building Automation Systems for mega

projects for Main Saudi Clients like Saudi Aramco, Saudi Electric Company, and many others (including Controller sizing and selection, instruments selection, system architecture, etc...)
- Accurately & efficiently designed Motor Control Center, ATS, & Motor Starter panels (including breakers and starters sizing and selection, wire sizing , bus bars sizing, terminal blocks sizing and selection, Circuit Breakers Coordination and Discrimination, etc...) according to international codes & standards (IEC, NEC,…)
- Prepared control panels wiring diagram, termination schedule, control cables list, bill of materials, catalogues, datasheets, and sequence of operation.
- Provided technical support for clients in troubleshooting control and power panels.
- Technically evaluated and compared different products from different brands for optimizing the design process.
- Enhanced Siemens Differential Pressure Sensor "QBM65.1-1" to read & display negative pressure to fulfil project requirements.
- Managed Factory acceptance tests for HVAC control & power panels (including Dimensional Check, Coating Test (DFT (Dry Film Thickness) measurement), Megger Test, Breaker Trip Test with primary and secondary current injection, and Functional Test, etc...).
- Improved the Control wiring & termination schedule preparation process by using Elecdes tool & customizing it as per projects' needs.
- Supervised the design team made up of 6 to 7 design engineers in the absence of the design manager.
- Programed PXC Siemens Desigo controllers
- Prepared the graphics and configuration for Siemens touch screens.

EDUCATION

Bachelor of Engineering in Electronics & Communications Engineering Sep 2005 - Jun 2010
Beirut Arab University • Beirut

Honors:
- Graduated at the first place with excellent degree
- BAU List of Honor all over the five years.
- Electrical Engineering department scholarship.
- Jamal Abed El Nasser Award For Academic Distinction

Some Undergraduate technical activities:
- Senior project: planning and implementation of video distribution network
- Research on video compression
- WiMAX planning and simulation for Tyre Region in south Lebanon (Senior Project)
- Design and implementation of a "voice mail box" using AVR microcontroller (atmega8515L) and voice recording IC APR6016.
- Design and implementation of "digital Power meter" with capabilities to measure RMS voltage (up to 300V), RMS current (up to 20 A), power factor, active power, reactive power, harmonics active and reactive power using AVR microcontroller (atmega16) and power measuring IC CS5463.
- Implementation of 6 digits digital frequency meter using counters.
- Implementation of a circuit that calculates the length and the characteristic impedance of the stub used in single stub circuits for high frequency transmission lines matching using AVR microcontroller.

SKILLS

- Efficient knowledge of Computer software tools like Microsoft office and engineering software like AutoCAD, Elecdes, Multisim, Matlab, Simulink, Labview, Atoll, Siemens Xworks Plus, ETS, and ORCAD
- Programming Skills where I have a background on C/C++, assembly language for Intel 8088 microprocessor, Atmel 8051 based microcontrollers, and PIC microcontrollers, as well as Functional block diagram and ladder diagram programming.
- Research and Development skills where I am always excited to find more efficient ways and tools to enhance productivity.
- Trouble shooting and problem-solving skills where I look for tackling challenging situations and find best solutions.
- Awareness of most Open Building Automation & Lighting Controls protocols like BACnet, LON, KNX, and DALI...
- Self-Learner where I am always eager to enhance my knowledge and engineering skills to be always up-to-date.
- Good team worker where I have the ability to adopt and work in a team in a most efficient way.
- Supervisory skills where I have the ability to efficiently manage and lead a team.

PROFESSIONAL CREDENTIALS

- Kuwait Society of Engineers Member
- Saudi Council of Engineers Former Member
- Association of Professional Engineers and Geoscientists of Saskatchewan: applied for Engineer-in-Training - Intl grad (application under process)

AWARDS AND HONOURS

Best Design Engineer   2013

Best Design Engineer at Zamil Controls based on performance evaluation in connection with the amount & complexity of projects successfully handled and delivered for that particular year.

Best Design Engineer   2011

Best Design Engineer at Zamil Controls based on performance evaluation in connection with the amount & complexity of projects successfully handled and delivered for that particular year.

Jamal Abed El Nasser Award for Academic Distinction   2010

Awarded by Beirut Arab University for graduating as a topper for Electrical Engineering Department Electronics & Communications Section

https://badges.wes.org/Evidence?i=b44c5a68-e80e-424f-8f4b-9953d5c8ab91&type=ca