

Portfolio

BUREAU VERITAS Certification

CR N#61770



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AUTOMATION AND ROBOTICS















Companies Group Presence

Lebanon



Industrial technologies SAL Distributor & sales company for electrical & automation parts

www.iteclive.com



Engineering company for electromechanical projects

www.automationmate.com



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Germany



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Qatar



Industrial technologies SAL Distributor & sales company for electrical & automation parts

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Engineering company for electromechanical projects

www.automationmate.com



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10573
Tel: +974 40290062

USA



Siemens solution partner for drive systems

www.engineereddrives system.com



Distributors & sales for electrical & automation products

www.rkcontrols.com



LOS ANGELES 5901 Corvette Street, Los Angeles, CA 90040 Tel: +213 718 - 6959















About Us 2.1

The company was created with the vision of effectively integrating emerging technologies in the Automation and information Systems industries. It was founded in 2000 under the name of AGERPLAST.

During the start-up period, the company focused on service and support of Plastic Injection, Filling & Packing and Blow Molding Machines. Providing responsive, effective service and support became the hallmark of the organization; our service arm is still our most effective marketing tool.

Our 24 Hours working policy and the ability to service equipment and systems from many manufacturers was key to establish the service group.

As the company grew, we successfully acquired and executed several large integration projects that enhanced our reputation in the market. Ranging from Injection & Blow Molding Machines to Food Processing systems to large scale bulk of material handling, itec continued to accelerate with successful projects under its belt.

The company has focused on working on Siemens Automation Systems to include SIMATIC PLC program design & modifications. Drives Start-up & Commissioning & Human–Machine Interface [HMI] programming. We continue to acquire training on the Siemens equipment that makes our company a reliable source for programming & servicing Siemens PLCs, HMI & Drives products.

Automate (founded in 2013 as the engineering division of itec) has the flexibility to meet each client's requirements by assembling teams of experts with the knowledge and ability to deliver superior results. From initial design and consultation through custom PLC, Drives, Human-Machine Interface and Network programming, system development, commissioning and ongoing support.

Leadership

Automate's fundamental business strategy is building long-term client relationships. As a young & innovative engineering company with only years in the industry, we have attracted and retained clients by providing superior customer value; in fact, over 90 percent of our work is repeat business from loyal clients.

Our company is built and managed by individuals that have proven they can make clients' projects successful. They enjoy the steepest career ramp possible, have a company financial plan built around providing them the best commercial package, but most important, recognize that they alone are the reason for success.

This strategy yields cost advantages, profits, and growth for us, allowing us to also attract and retain investors and thus fuel further growth. The combination of a loyal client base and steady growth enables us to attract and retain the industry's top talent. As a result of this sound business strategy, we plan to prosper in diverse markets.















2.3 Vision Basis

As times and technology move onward, we'll always be ready with the latest products and knowledge to guide your operations into the future of manufacturing.

2.4 Mission

We Deliver Solutions that makes Your Business Better Whatever your business is, itec is created to bring you not only the best products and the latest technologies but also complete solutions that will enable your business to be even more efficient and productive.

2.5 Added Values

Every Automation project is well planned and organized by Automate Engineers. We make sure in Automate that every client will realize the real value he is going to gain in his new requirement by showing and make him understand the benefits he will receive and presenting him a timbale for achieving the results. Our suppliers are devoted to guarantee that permanent benefits are realized and the implementation is a complete success. Total Capabilities Value is an essential part of our Success Story.















- **BMS**
- DCS
- **INSTRUMENTATION CONTROL**
- **CEMAT**
- **SCADA**











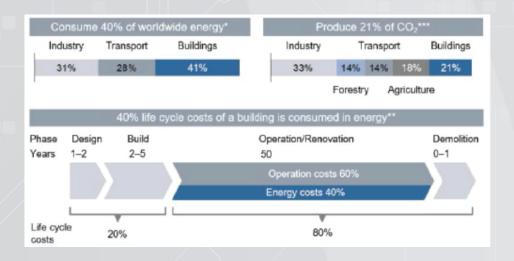


3.1.1 Introduction

What we know about buildings?

A building management system (BMS) is a control system that can be used to monitor and manage the mechanical, electrical and electromechanical services in a facility whether it is a Tunnel, Airport Facility, Hospital, Tower or any large building; such services can include power, heating, ventilation, air conditioning, access control, pumping stations, elevators and lights but not limited to it.















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3.1 Building Management - System BMS





3.1.2

Advantages

3.1.2.1

Energy Efficiency

Building automation and control is particularly effective in achieving reductions in energy consumption and demand. Compared to improvement measures involving the building shell or mechanical equipment, building automation and control generally requires a smaller investment while achieving significant energy savings, reduced emissions and the quickest simple payback time.







Siemens Building Technology is continuously developing ways to make energy efficiency more manageable through:

- 1. Superior quality products that boast industry leading control accuracy.
- 2. Innovative control applicants designed especially to optimize energy usage and reduce costs.
- 3. Simplified monitoring and reporting functions that make energy management decisions easier.

3.1.2.2

Operation & Maintenance Cost

- 1. Analyze & Monitor how energy is consumed
- 2. Create automated energy efficient measures i unoccupied areas of the building

3.1.2.3

Benefits To Occupants

- 1. Individual Room Control
- 2. Better Management of time and money
- 3. Better control of internal comfort conditions

3.1.2.4

Benefits To Building Owners

- 1. Higher Value on property
- 2. Central remote control of building

3.1.3

Partnership With Siemens Building Technology

As a trusted advisor and reliable partner, as a system integrator, service provider and a product vendor, our partnership with Siemens offers energy-efficient, safe and secure buildings and infrastructure. With our people, our global footprint, our decades of experience and our technical expertise, it's our passion helping you to create the perfect place – your perfect place.















3.1.4 Vision Of Green Buildings

- Advanced building management system
- · Quality of work and living space is monitored and communicated to occupants
- · Air quality and temperature are actively maintained
- · Natural light supported by efficient artificial light
- Intelligent all-electric building (no fossil fuels)
- Clever heating, cooling with ground source heat pump and ground storage Low energy mixed-mode ventilation





Scope

- 1 Operations and maintenance optimization
- 2 Energy efficiency
- 3 Sustainable design
- 4 Water efficiency
- 5 Materials efficiency
- 6 Indoor air quality

3.1.4.1

Operation & Maintenance Cost

Goal: A structure and its surrounding landscape that is designed, constructed and operated to:

- 1 Use resources more efficiently
- 2 Improve occupant health and productivity
- 3 Reduce waste, pollution and environmental degradation.















3.1.4.2

Why A Green Building?



















3.1.5 Pre-Sales

Our estimation engineers are ready to study the tender documents and prepare a competitive techno-commercial proposal for supplying, testing and commissioning the complete Building Management System including the below:

Field Level:

- 1 Temperature Sensors
- 2 Humidity Sensors
- 3 Pressure Sensors and Switches
- 4 Level Sensors and Switches
- 5 Flow Sensors and Switches
- 6 Chilled Water Valves and Actuators
- 7 Damper Actuators

Automation Level:

- 1 Freely Programmable Controllers Direct Digital Controller (DDC)
- 2 Application Specific Controllers
- 3 Human Machine Interface Through Design Control Point
- 4 Panel Building
- 5 Software Development
- 6 3rd Party Integration

Management Level:

- 1 Siemens Design CC Software
- 2 Graphical User Interface (GUI)
- 3 3rd Party Integration

3.1.6 Projects

Whatever the size of the building, its purpose or application:

Our comprehensive building automation and control systems portfolio allows us to perfectly tailor an automation and control solution to each project's individual needs. Openness and flexibility are the bottom line for all our systems. As a result, open communication protocols enable their easy integration with other systems and the option to modernize later on. Combining electrical and HVAC systems in a comprehensive, multi-discipline approach and designing for reliability – this is how perfect places become a reality.

We will assign a project manager to each and every project at a time. The project manager will be the client's single point of contact throughout all phases of contract execution. He will be responsible for coordinating all works required in the various project stages.

The project manager will need a contact person within our customer's team for smooth coordination.













3.1.6.1

One of our previous projects

Date	Project ID	Project Name
2017 - 2018	AQMI04122016	Metro Station - Phase 1-552 Project

Short Description

Metro Station-Phase 1-552 Project Title

Supply, Testing & Commissioning of BACS Field Devices Description

Customer Data

Midmac Contracting Co. W.L.L. Company

Location C Ring Road, New Slata Interchange, Doha

Country Country

Customer Requirements

Oatar Rail Specifications / Octo Standards.

Select, supply the BACS field devices based on the above standards.

Power Supply Panels Design and fabrication according to above standards.

Supervise the installation, test, commission and handover.









You Tube

3.1 Building Management - System BMS





Benefit For The Customer

What Benefit Does The Customer have?

Analyze & Monitor how energy is consumed

- Create automated energy efficient measures in unoccupied areas of the building
- Better central of internal comfort condition
- Better control of internal comfort conditions
- Higher value on property

What hardware Costs could Be saved? Why?

Our field devices could increase the HVAC equipment lifetime since they are running based on the sensors' readings and predefined set points.

Was It possible To reduce Operational Costs?

The operational costs have been already reduced by sustaining the energy consumption within the building.



















3.2.1 Introduction

A distributed control system (DCS) is a computerized control system for a process or plant usually with a large number of control loops, in which autonomous controllers are distributed throughout the system, but there is central operator supervisory control. This is in contrast to systems that use centralized controllers; either discrete controllers located at a central control room or within a central computer. The DCS concept increases reliability and reduces installation costs by localizing control functions near the process plant, with remote monitoring and supervision.

Distributed control systems first emerged in large, high value, safety critical process industries, and were attractive because the DCS manufacturer would supply both the local control level and central supervisory equipment as an integrated package, thus reducing design integration risk. Today the functionality of SCADA and DCS systems are very similar, but DCS tends to be used on large continuous process plants where high reliability and security is important, and the control room is not geographically remote.













3.2.2 Siemens PCS7

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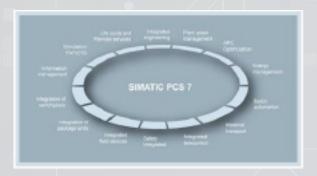
3.2.2.1

Introduction

SIMATIC PCS 7 is one of the international leaders in process control systems, and has the potential to implement innovative solutions for the special challenges associated with the process industry. The functional diversity, flexibility, and performance of the SIMATIC PCS 7 pushes the limits of a typical process control system, and its technological enhancements offer many additional possibilities and new perspectives.

SIMATIC PCS 7 benefits from its seamless integration in Siemens Totally Integrated Automation (TIA), a complete range of matched products, systems, and solutions for all hierarchy levels of industrial automation - from the enterprise management level, to the control level, all the way down to the field level. This enables integrate, customized automation in all sectors of the process and hybrid industry.

An essential advantage of the consistency of the product and system spectrum and the solutions based upon this spectrum is that faster and more precise control sequences, as well as integrated security functions of shared hardware, engineering, and engineering tools can be used for automation of continuous and discontinuous processes .



















3.2.2.2

Features

- Performance
- Scalability
- Integration
- Safety & Security
- Innovation
- Modernization
- · Global Network of Experts

3.2.2.3

PCS7 CEMAT library for Cement industry

CEMAT® is a control system specifically designed for cement plants and has been well proven in this harsh environment over many years of service. The system is well accepted in the cement industry, and the number of CEMAT users is growing continuously. Siemens has designed the CEMAT control system from their extensive know-how in the field of cement production, established together with many cement manufacturers worldwide.

Some of the highlights of CEMAT based on SIMATIC PCS 7 are these:

- Easy and fast engineering with predefined CEMAT modules
- Proven software typical for specific requirements in the cement industry
- Strict guidance of the engineer during programming avoids patchwork of software
- Very low possibility of programming errors also because of standard interfaces between CEMAT modules
- Fast commissioning because of high quality of the user software
- Easy handling for the operator because of self-explaining standard faceplates
- Fast fault finding because of detailed fault indication with high-performance plausibility logic
- No unreasonable start of drives or groups because of detailed status report prior to any start
- Integrated Asset Management for innovative maintenance strategies
- Operating and monitoring the process easily via Internet/Intranet.



















Projects - References : 3.2.3

- A Overview of Existing System:
- SIMATIC S7-400 Controlling up to 40 remote IOs (Et200s)
- PCS7 System Installed ES Station and ES OS Station version
- Siemens Industrial PCs running on Windows XP.



B - Scope Of Work:

- Integrate 2 new lines of operation within the original Software.
- Install a new S7-400 PLC to manage and control the new lines
- Upgrade the Industrial PCs to the latest version of PCS7 Industrial Stations.
- Upgrade the software licenses from V7.1 to V8.2







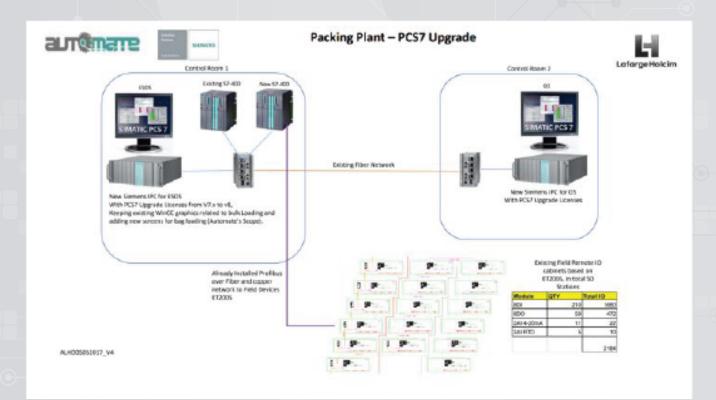








C - System Architecture



D - Action Plan

- IO List Check and approvals based on site surveys.
- Existing Software exploration and definition.
- Plan for a PCS7 Training and Customized Sessions.
- Software Development based on Client Requirements.
- Implement CEMAT Library using LAFARGE HOLCIM Standards.
- Factory Acceptance Test and Software Simulation at Office.
- Site Testing, New Remote IOs Installation and Termination.
- Hardware Simulation.
- Software Simulation and Commissioning.







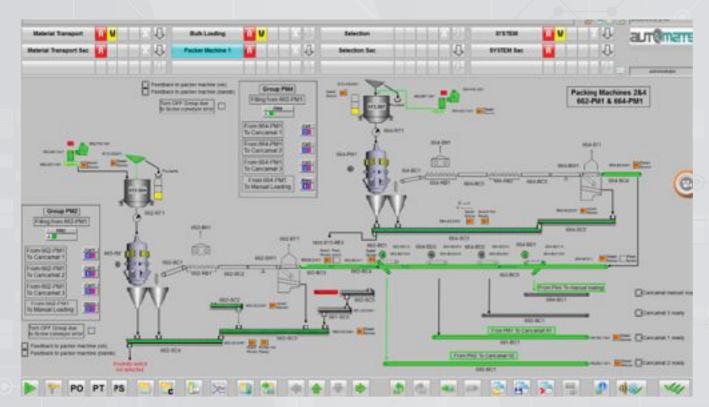


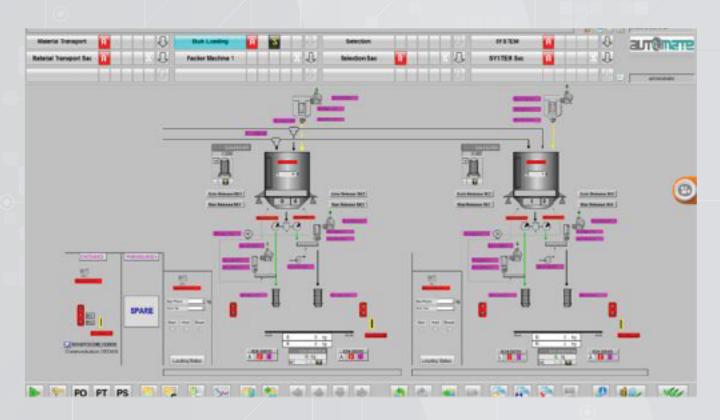






E - Software Graphics











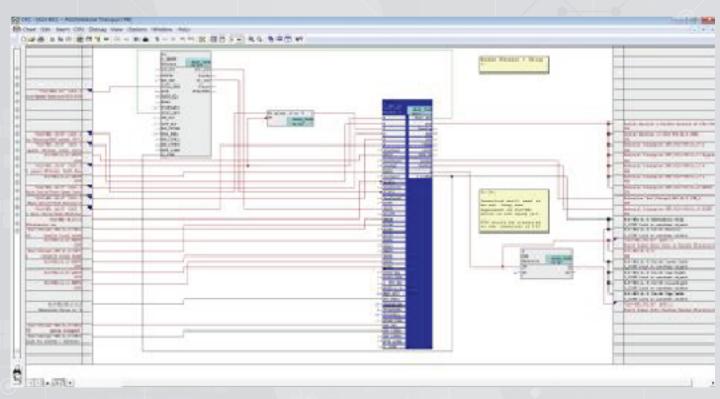




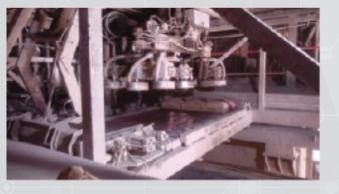




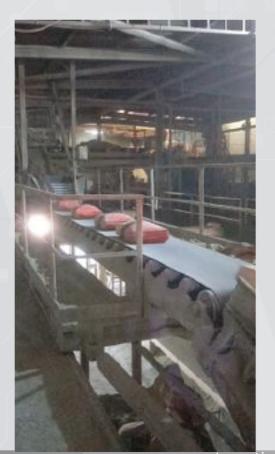
F - Logic and interlocks



G - Site Photos























H - Client Benefits

- Any error will result in an alert, stopping the process to avoid losses.
- Energy consumption is decreased (up to 20%)
- The power of each machine is monitored by SCADA.
- Increase in the life cycle of the machines
- Increase in the efficiency of the plant
- Decreased the losses in material and cost
- Simplified operation and management of the packing process.









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3.3 Instrumentation Control





Instrumentation is defined as the art and science of measurement and control of the process variables within a production or manufacturing area. ... Control engineers are responsible for the research, design, development and control devices/systems, typically in manufacturing facilities and plants.











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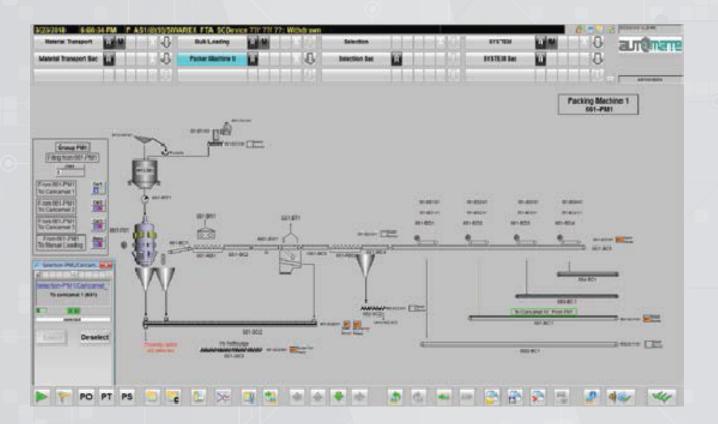






The CEMAT process control system offers the best way to optimize cement production potential at all corporate levels and throughout the value chain. CEMAT helps reduce cement production costs through resource management and productivity monitoring from raw materials to finished products. With just a few mouse clicks, the operator has access to all relevant production data e.g. status of running machines, fault and alarm, maintenance etc., in order to run the production in the most efficient way. As a result, CEMAT makes a significant contribution to optimizing cement production capacities facility-wide.

Additional CEMAT benefits for the cement industry include excellent operation and integrated diagnostic features, which help detect potential faults quickly before a problem and minimize outages.















3.5.1 Introduction

Totally connected. Totally digitalized

Digitalization is noticeably changing our world – and the world of industry. The data volume in modern industrial plants is growing continuously. That brings new challenges for SCADA solutions: Enormous data volumes must be managed and archived for the long term. At the same time, production processes must be monitored and controlled as reliable, efficient, and productive as possible and they must be constantly optimized. With its scalable, open system landscape for the vertical integration of data from the production to the MES/ERP level up to cloud solutions, SIMATIC SCADA offers a solution that is ready for the challenges of today and tomorrow.















Advantages

3.5.2.1

Introduction

Stay informed with mobile SCADA solutions anywhere and at any time including with existing tablet and smartphone hardware. And experience modern operating concepts, e.g. with multi touch gestures.



3.5.2.2

Scalability

We offer stationary and mobile solutions to cover increasing demands security guaranteed. In this area, we apply more than 15 years of SCADA know how from all industry sectors no matter how large or small your requests are.



3.5.2.3

Efficiency

As a key to greater productivity, SIMATIC SCADA systems combine efficient engineering with high-performance archiving and maximum data security. This enables efficient production management and intelligent production analyses.



3.5.2.4

Openness

Through support of international standards and system internal script and programming interfaces, special requests can also be easily implemented.

















Partnership with Siemens:

3.5.2.1

Introduction

A - As Siemens Solution Partner, we place the highest value on what distinguishes ITEC as a whole: expertise, professionalism, and quality. That's why a core aspect of our Partnership is continuing education through qualification and certification measures based on uniform global standards.

- Solution quality through the use of optimal products for the specific requirement
- Expert quality Cutting-edge knowledge demonstrated in regular workshops and audits
- Consulting quality thanks to valuable synergies generated through close cooperation with Siemens
- Project quality as a result of targeted collaboration throughout the entire production workflow
- Quality of products and services for efficient and safe investment solutions based on state-of-the art technology
- Supply quality thanks to the reliable availability of products and simple, highly efficient logistics processes
- Service quality for the highest level of machine and plant availability
- B Technical certification and systematic qualification

Our expertise is one of Siemens' top priorities. Not only it is the key criterion for our certification but, given the rapid pace of technological progress, it's also being constantly adapted to the latest requirements. The targeted promotion and improvement of our quality is firmly anchored in contractually defined criteria.















Vision of Digitalization

3.5.4.1

Take the next step with SIMATIC SCADA systems

One of the central value propositions of digitalization is the intelligent use of manufacturing data to identify hidden productivity potential and use resources more efficiently. In this context, handling of the enormous Quantities of data created in state-of-the-art production lines is a major challenge in industrial environments. This is exactly what SCADA systems are designed for. You benefit from a future-proof basis which enables you to manage and archive long-term the increasing volumes of data, and aggregate them into meaningful information. Enjoy new degrees of freedom by establishing sufficient scope for new technologies, mobile applications and for meeting increasingly stringent requirements for energy efficiency and productivity.



3.5.4.2

The key to increasing productivity

Digitalization creates new opportunities for making industrial processes more versatile, more individual and more efficient. Key components for this are integrated concepts for production from data acquisition and analysis to strategic decision-making. SIMATIC SCADA supports you with solutions ranging from data collection and analysis to business models and strategic decision-making. These solutions enable you to extract valuable information from your data not just in traditional control room setups, but also in combination with cloud-based solutions.

















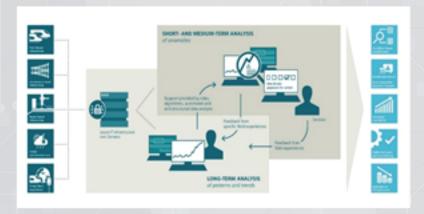
Vision of Digitalization

3.5.4.3

Connect your data

SIMATIC SCADA systems bring together data from different subsystems and help create a unique and solid database. You can aggregate and centrally archive data and access important information anytime, anywhere.

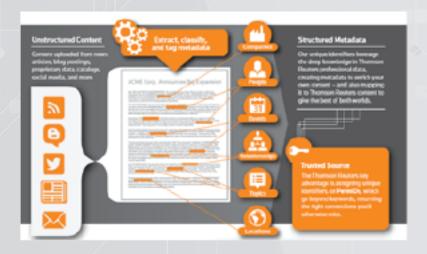
With SIMATIC SCADA, you establish the basis for reliable and efficient operation of plants, consistent product quality, high availability and optimum resource efficiency. Together with an optimum user-friendly HMI design, you benefit from greater reliability and efficiency in your plants.



3.5.4.4

Combine your knowledge

SIMATIC SCADA supports analyses for transforming data into useful know-how. With data mining, you can analyze data efficiently and evaluate it in a targeted manner. Benefit from the ability to receive direct notifications and efficient diagnostics for shorter downtimes. Make use of SIMATIC SCADA for root cause analysis and benchmarking. And last but not least, identify optimization potential and measures for increased productivity and better operating efficiency















Vision of Digitalization

3.5.4.5

Digitalize your business

SIMATIC SCADA is a strategic foundation for turning your company into a digital powerhouse. With SIMATIC SCADA, you have a central gateway that supports you in achieving vertical integration and enables preprocessing of data for optimized information transfer. SIMATIC SCADA supports state-of-the-art solutions such as virtualization and cloud-based analyses to achieve higher productivity and efficiency.

















Added Value Summary

- -Machinery Knowledge
- -Machine Safety Knowledge
- -Technology Knowledge and Experience in partnership with Major Automation Players: SIEMENS, ROCKWELL AUTOMATION, BECKHOFF...
- -Detailed Experience in DDC, PLC, DCS and HMIs Programming and third party integration.
- -SIEMENS S5 to S7 Multiple successful conversions using SIEMENS Special tools and team expertise.













Vision of Digitalization

Contents

- Introduction
- Automate IIoT & Analytics
- Benefits
- Predictive Maintenance

















4.1 Introduction

Dubbed the "fourth industrial revolution" or Industry 4.0, the Industrial Internet of Things or IIoT is the digitization of industrial assets and processes that connects products, machines, services, locations/sites to workers, managers, suppliers, and partners.

The convergence of sensor data, artificial intelligence, and big data analytics creates a potential for huge advances in productivity, efficiency, and cost savings in today's factories.

4.2 Automate IIoT & Analytics

Dubbed the "fourth industrial revolution" or Industry 4.0, the Industrial Internet of Things or IIoT is the digitization of industrial assets and processes that connects products, machines, services, locations/sites to workers, managers, suppliers, and partners.

The convergence of sensor data, artificial intelligence, and big data analytics creates a potential for huge advances in productivity, efficiency, and cost savings in today's factories.









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4.3 Benefits

Whether deployed locally or on the cloud, Automate IIoT & Analytics collects data from the various sensors installed on premise and performs real time analytics providing the factory managers with valuable information about the status and health of the running equipment as well as detailed performance assessment of the factory operations.

4.4

Predictive Maintenance

Real-time as well as historical data analytics enable Automate IIoT & Analytics to predict and inform the factory managers of the possibility of an imminent failure ahead of time in order to take the appropriate corrective measures thus preventing unexpected downtime. Implementing Predictive Maintenance not only prevents catastrophes on the plant floor from happening but also optimizes employee productivity and increases revenue by minimizing unplanned downtime and maximizing equipment lifespan.

SMART FACTORY









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- Delta
- Arm Robot
- Factory Automation















Delta Robot

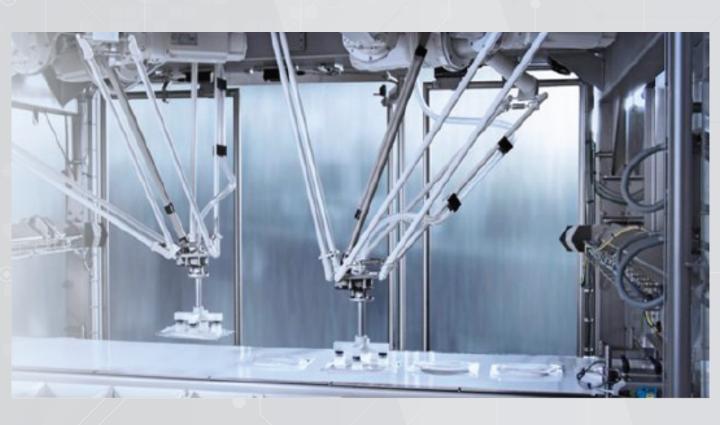
Delta robots feed the need for speed

With their spindly arms and quick motion, spiders are amongst the quickest and most efficient assemblers in nature.

Delta robots are similar in current and future industries where fast, reliable and accurate motions are needed. This parallel-link robot, where the major axes are mechanically connected in parallel, provides great motion advantages with explosive speed, accelerations and high duty cycle.

The Delta Robot developed by Automate offers:

- · Integrated vision software
- Ease of program customization
- Shortest cycle times with high precision and accuracy
- · High capacity enduring large payload vision software
- Customizable design appropriate to the industry application
- Superior tracking performance
- Easy integration into machines and production lines
- · Gentle handling of products















Arm Robot

The robotic arm comes in handy

As the manufacturer and assembler, the robotic arm with its rotary joints closely resembles a human arm it has the equivalent of a shoulder, an elbow and a wrist, with the ability to change the number and shape of these articulations. This type of robot can pivot in all different ways. The human arm moves the hand from place to place. Similarly, the robotic arm's job is to move an end effector from place to place. Robotic arms can be outfitted with all sorts of end effectors suited to a particular application.

Automate retrofits the control system integrated within these robotic arms to improve their performance and suit the needed application.



The essence of assembly operations with heavy lifting and dangerous movements.













Factory Automation

Automation, the programmable factory logic

The ability to produce chiefly by machines, integrated assembly lines, and robots is the main purpose of factory automation. To complete this environment, communication is tuned with the required automatic equipment

Expect

- Increased Productivity
- Significant Cost Savings
- Improved Quality
- Improved Safety
- Providing Flexibility and Convertibility
- Increased Competitive Edge



Factory automation is a more recently coined phrase that is used to group the overall top-to-bottom end-to-end; products, procedures, building (or group of buildings), networks, controllers, interfaces, machinery, and assembly lines that are involved in the physical and organizational structures and facilities used in the production of goods. This grouping describes a general engineering and manufacturing environment that is defined by its ability to manufacture and/or assemble goods chiefly by machines, integrated assembly lines, and robotic arms. These environments are also defined by their coordination with (and usually their systematic integration with) the required automatic equipment to form a complete system. This system is essentially a solution for the automation and manufacturing of a particular production process of an intended output and/or end product.















Wind Energy

From wind, to clean energy

Wind turbines are clean power harvesters converting the kinetic energy of the wind into electric power by rotating about their either vertical (VAWT) or horizontal axis (HAWT). The VAWT developed by Automate is custom-made to suit the installation location wind regimes even at low wind speeds. These vertical axis systems outperform the tradition large HAWTs in urban regions with turbulent wind profiles due to their ability to run smoothly, independently from the wind direction.



Automate VAWT specifications:

- Up to 150 kW per unit installed
- Emitting low noise levels (< 36 dB)
- · An easy integration on already built structures
- High efficiency due to its improved blades' aerodynamic design
- Smoothly running in urban regions and independently from wind direction
- Light and robust materials, resistant to climatic conditions
- · Gentle handling of products















Solar Energy

The Power of the Sun

The Sun is the ultimate Source of Energy in near future. Everyone recognizes the glistening panels on rooftops or the arrays covering someone's backyard. These are common sights, but this is only part of what is driving the industry and the world to greener living. Solar radiation may be converted directly into electricity by photovoltaic cells. In such cells, a small electric voltage is generated when light strikes the junction between a metal and a semiconductor or the junction between two different semiconductors.



Advantages

- Renewable Energy Source
- · Electric Bills Reduction
- Low Maintenance Costs
- Reduction in Carbon Emissions

Applications

- · Residential heating & lighting
- Supplying remote areas with electricity Low Maintenance Costs
- Small gadgets powering















Questions

MID of Presentation QUESTIONS related to above FIELDS









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PANEL BUILDING

QATAR

LEBANON

U.S.A.

ELECTRICAL CONTRACTING & CABLES















7.1 Qatar Workshop





















Lebanon Workshop

7.2.1

Introduction

- Who We are?
- **Our Advantages**
- **Switchgear & Control Panel Production**
- **Installation & Design Works**

Who we are

We are an electrical engineering company and solutions company. We take on tasks of varying complexity and deliver efficient solutions for commercial, residential and industrial applications.

What's different when you work with us:

With multiple years of market expertise, we have developed a very customer-oriented approach. When you engage us for your project, you get access to a team of specialists consisting of experienced engineers, drafters, electricians and project managers. All working together for a shared goal - to deliver your project on time and within budget.



Our whole work culture puts an emphasis on:

- Quality
- Cost-Efficiency
- Flexibility
- Friendliness
- Communication
- Reliability















Lebanon Workshop

7.2.2

Switchgear & Panel Production

Low Voltage Switchgear as well Automation and Control Panels are produced in-house by a dedicated team of professional panel builders.

Our company designs and assembles switchgear for both internal projects as well as direct customers.

All systems are tested thoroughly before installation.

Switchgear & Control Panel Production

Power distribution and control units play a central role in every modern building. They have to be safe to operate and sturdy to withstand dust and changing temperatures. Naturally, they also have to be reliable in the long run, so that operational processes don't come to a sudden halt.

Finally, they have to be compact, easy to use and cheap to maintain.

To produce switchgear panels which adhere to all these requirements, you need a partner who knows his trade and has the required expertise.



Since our founding, we have been specializing in the design and assembly of electrical switchgear and automation panels for residential, commercial and industrial applications. In our dedicated panel building workshop we assemble and test a wide variety of custom switchgear. The usage of high-quality components from well-known European and US manufacturers as well as constant quality control guarantee an optimal performance of our systems.

















Lebanon Workshop

7.2.3

Switchgear & Panel Production

We build custom switchboards and control panels according that exactly fit your needs:

- Low-Voltage Distribution Boards.
- ATS Control Systems Synchronization Cabinets
- **Motor Control Centers**
- Control Panels for Industrial Automation
- Network communication cabinets
- Cabinets for lighting control and smart house installations
- Cabinets for Building Management Systems

Our commitment to Quality

Our switchboards are assembled with electrical components only from reputable manufacturers that comply with European standards. Continual professional development combined with an effective in-house quality assurance process ensures that we can meet the most stringent quality requirements.

Installation Works

Carrying out electrical installation projects for commercial and industrial clients, requires a high degree of expertise and flexibility. A team of professional electricians, technicians and engineers will be on hand to guide your project to success. You will know you made the right choice, from the moment we start working together.

Installation and Design Works

We plan and execute electrical works according to international norms and standards. Our Project Management team analyzes every endeavor and defines a scope by understanding the challenges at hand. Afterwards all drawings and schemes are prepared, reviewed and detailed specifications created. Finally, materials are procured and installation and commissioning of all sub-systems commences.

Our years of experience, along with our diverse and specialty services, have made it possible to successfully complete hundreds of projects. Our customers are hotels, professional offices, service centers, and residential complexes, as well as factories and more. Integrated design-build services enables us to successfully plan, engineer and execute projects in a timely and cost effective manner.















U.S.A. Workshop



Summary of Workshop and Locations:

- -Lebanon
- -Qatar
- -USA

With two workshops in the Middle East serving the electrical and automation market, we find ourselves close to any client request offering the best quality as per client/system standards.

Cabinets Building based on UL/CE Standards, with high LO/TO Experience. ITEC/Automate invested in NESTLE demo LO/TO and Safety Room, spreading the knowledge in multiple factories within the Lebanese and Middle east industries.















7.4 **Electrical Contracting & Cables**











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Electrical Contracting & Cables

7.4.1

Electrical Consultancy

Every successful project or plan requires careful study of all possible phases from the operations, engineering till the information management. Therefore automata's Estimation group / Team will sit with you to study evaluate your exact engineering need, as a result this estimation contributes to your effective requirement of control strategies, process design, and business system integration to guarantee you are achieving most advantageous return on your plant investments. Once the study is complete, you will receive a full report on the findings and any corrective actions will be detailed.

7.4.2

Projects Automation / Electrical

Project Services are delivered by experienced professionals with expertise in all facets of implementing projects in your industry. Accurate, well-defined, fast implementation to your requirements ensures successful projects, lower total cost of ownership, more efficient process behavior and enables ease of meeting any and all regulatory requirements. Combining our core of industry focused expertise with the industry's most extensive team of experienced field engineers ensures long-term return on your plant investments.

Automate's Process Solutions Project Services includes:

- **Project Management**
- Consulting
- Requirements Definition User Requirements, Functional Requirements
- Hardware Implementation
- Software Design and Implementation
- Startup and Commissioning
- Post Start Up Application Support

















8.1 **Automation Solutions Services**

Automate Solutions focus since day one on helping different Industrial companies to implement new products and technologies quicker and more efficiently that optimize plant operations, improving competitiveness and profitability. We optimize our customer's development by presenting industry-focused solution and regulated information systems. Our path for this success comes from the services that combine a comprehensive line of software and hardware products, engineering services, training and support.

8.2 Engineering

Automate's engineering personnel presents a full range of engineering services.

8.3 **Proposal**

Automate engineering team has a proven historical path and record of studying, writing and put into practice different inquiries and proposals. In a turnkey situation, our engineers will assess every client's current technical system and organize subsequently a technical offer to develop or modernize the existing technology. To fully succeed into every Plan our client's support is highly recommended, where we can build up an effective proposal that will meet the customer's technical needs and budget requirements.

Project Management 8.4

Automate will assign a project manager to each and every project at a time. The project manager will be the clients single point of contact throughout all phases of contract execution. He will be respon-sible for coordinating all works required in the various project stages. The project manager will need a contact person within our customer's team for smooth coordination.













System Design & integration

The system design phase of any project engages concept assump- tion and identifying a system solution. To write down the exact system that matches a client's need, it is indispensable to have faultless communication between a group of engineers whose mutual knowledge contains an in- detail understanding of the required process, the technical features and phases of the system, what is the environment in which the system will be implemented, any external influence, and the know how being applied to the problem.

To make this possible, our engineers are skilled in developing:

- · Wiring and fabrication
- drawings Loop diagrams
- · Interconnect diagrams
- Point-to-point drawings
- All wiring and fabrication drawings conform to CE rules and regulations and International
- Standards, and all loop interconnect diagrams conform to global standards. In addition,
 all drawings are drafted on workstations using the latest version of Engineering Base from Aucotec.
- We also supply system configuration, detail design drawings, systems integration, programming, and equipment specifications, including field and communication devices.

8.6

Training

Automate's engineering personnel has performed wide-rang training courses for many products and systems. We provide training material, simulation equipment, and, if required, computers and other peripheral equipment. We can provide training on-site or at our facility for our clients. As well, we have signed agreements with the industries and universities for training programs and we receive abroad trainings directly from suppliers to End Clients





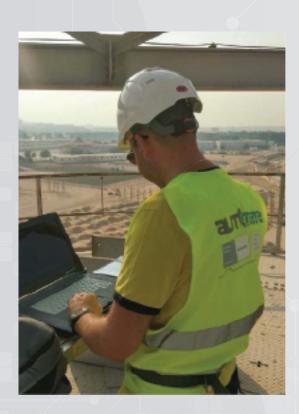












Over the years, Automate developed a comprehensive range of maintenance services. Our maintenance service packages are available with a range of options designed to give our customers complete flexibility over the type of cover that best suits their requirements and budget.

Our staff is always available [24/7] for on-site audits, start-ups, maintenance, troubleshooting and repair of products critical to you processes.

Services offered include:

- PLC troubleshooting
- · Drive diagnostics, troubleshooting & start-ups
- Maintenance & service agreements
- Low-voltage [<600V] wiring & troubleshooting
- Industrial PC upgrades
- Installed base evaluations
- Training









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Pre-Installation Services

Whenever a product is bought it comes with a manual for installation. Depending on the nature of the product the installation may vary. While some products have very specific installation steps other products are customer friendly.

9.2

User Training

Training of the end user is another part of after sales service. In the case of industrial machinery, this is a very crucial part. It is very essential that user training is provided propositions user is going to be handling the product.

9.3

Warranty Services

This is perhaps the most common type of after sales service provided by almost every company for almost every product. Warranty services include repairing replacement of selected parts for a selected period of time.

9.4

User Training

For a Limited period of time companies provide free replacement of the product in case of any queries. However, this is with certain terms and conditions. In some cases, replacement may be of the entire device, or in other cases, replacement may be only of the defective part.













9.5 On Site Service & Maintenance

We have engineers with disciplines of electrical, electronic and automation personnel, In addition to the fitting of plant, our site maintenance teams can carry out a wide range of other work in the form of plant inspections as part of preventive maintenance initiatives, fault finding, repairs of equipment on site or the commissioning of drives or other electronic equipment.

9.6 Return/Replacement

For a Limited period of time companies provide free replacement of the product in case of any queries. However, this is with certain terms and conditions. In some cases, replacement may be of the entire device, or in other cases, replacement may be only of the defective part.















Industrial Communication

Our expertise ranges from the simple panel-based products with standard operator devices, to sophisticated HMI supervisory systems control and PLC networking. Our systems include features like Set points control and display, automated configurations, recipe management, centralized intelligent alarm handling, data acquisition (DAQ), and statistical process control (SPC).

We are committed to the Open Control Systems (OCS) methodology and, wherever possible, we design to open interface standards preventing you from getting locked into the particular migration path of "single-source".





AUTOMATE Lebanon is Profibus Profinet Competence Center

























Certified service/solution providers

SIEMENS

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Al Rayyan Street, Al Salet, P.O. Box 10573, Deba -

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To Whom it May oursens

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SIEMENS

Ingeneily for life

Solution Partner Certificate



AUTOMATE

The company is a certified Partner in Jebanon and is authorized to use the name Siemens Solution Partner Automation Delves. The certification has been proved in the following program module:

- Drives & Motion
 Advanced Factory Automation

Partner

SIEMENS

Solution Partner



BECKHOFF

New Automation Technology























Staff Achievements

ITEC has a continuous development strategy that helps the company's management and its employees focus on improving the way things are done on a regular basis. Whether this enhancement is related to our electrical products or our engineering services, continuous development is driven by our customer feedback and satisfaction. Our company focuses on improving internal processes for more efficiency within the workplace, which in turn positively affects our ability to receive customer feedback and allows us to improve the quality of our products, enhance product capabilities in subsequent products, and strengthen the quality of our engineering services. All of this requires investment in our valuable staff and employees. Therefore, we are dedicated to provide our team with training programs organized and performed by our esteemed partners, such as Siemens, Rockwell Automation, Beckhoff, etc.

With excellence comes reward and this is evident in all the rewards that our staff achieved.























	Energy	Factory Automation	Process Automation	Building Automation
Food & Beverage		\checkmark	\checkmark	
Steel Industry	\checkmark	\checkmark		
Aluminum Industry	\checkmark	\checkmark		
Oil & Gas			\checkmark	
Plastic Industry		\checkmark		\checkmark
Edible Oil		\checkmark	\checkmark	\checkmark
Buildings & Hotels				\checkmark
Water Treatment			\checkmark	
Waste Treatment			\checkmark	
Cable Industry	\checkmark	\checkmark		
Cement Industry	\checkmark	\checkmark		
Petroleum & Chemicals			\checkmark	\checkmark























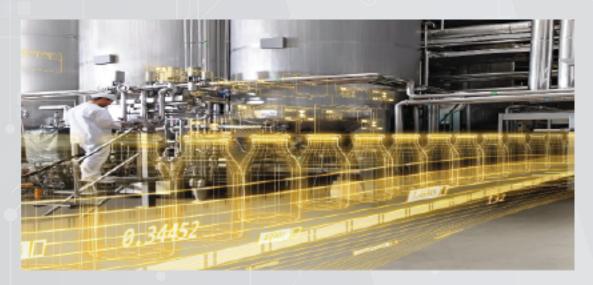
11.1 Factory Automations

Factory automation implies a set of technologies and automatic control devices to enhance the productivity and quality of products and simultaneously decrease the production cost. Also known as industrial automation, it minimizes human intervention in the industry and ensures a superior performance as compared to humans. It comprises the use of computers, robots, control systems, and information technologies to handle industrial processes



11.2 Food and Beverage

Consumers continually seek the new and different, and prioritize taste and nutritional value. That means you must get new, high-quality products through your facility quickly, and keep prices low and food safer. Through The Connected Enterprise, we help food and beverage manufacturers develop a more agile response to changing consumer tastes. The Connected Enterprise leverages smart manufacturing to revolutionize the way food and beverage manufacturers operate, by providing accessibility to relevant, real-time information. Information-enabled manufacturing allows you to combat your biggest challenges















11.3 Oil and Gas

In a dynamic global industry like oil and gas, you need to manage costs, extract the most value possible from current assets and maximize up-time. Technology available today makes it possible to develop a truly connected enterprise and move closer to operational excellence. Cloud, mobility and analytics offer an actionable view into real-time production data so you can respond to issues as soon as they arise, from anywhere in the world.

The current oil price environment is forcing major change and difficult decisions within the Oil and Gas industry. New operating models and approaches that improve CAPEX and OPEX are required to respond to short- and mid-term market supply and demand dynamics. Yet the longer-term need for sustainable solutions that bolster safety and environmental performance also remains an evergreen priority. From drill pad to refinery, Siemens helps operators achieve this unique balance through a spectrum of upstream, midstream and downstream technological innovations and solutions.















11.4 Industrial Packaging & Palletizing

Packaging plays a vital role in product marketing, as it is one of the most important factors that determine the sales of the product. Advanced packaging automated solutions have emerged as a significant factor due to increased importance of shelf service marketing resulting in effective & speedy packaging processes by manufacturers with minimal manual interventions. These solutions have significant applications in various packaging processes including product sorting, product handling, product storage, and product shipment. Thus, the global packaging automated solutions markets expected to witness a significant growth during the forecast period



11.5 BMS and Infrastructure

Consumers continually seek the new and different, and prioritize taste and nutritional value. That means you must get new, high-quality products through your facility quickly, and keep prices low and food safer. Through The Connected Enterprise, we help food and beverage manufacturers develop a more agile response to changing consumer tastes. The Connected Enterprise leverages smart manufacturing to revolutionize the way food and beverage manufacturers operate, by providing accessibility to relevant, real-time information. Information-enabled manufacturing allows you to combat your biggest challenges















Engineering Services & Development 11.6

We implement the most suitable SIS, DCS, PLC, SCADA, IoT, MES, Workflow, CMMS, and EI platforms & products for customers' unique industrial automation and application integration requirements. Even though our customers' applications may be bespoke, our solutions are not. Our team has broad experience and a diverse application background which has allowed us to build a library of vertical solutions that build on a platform agnostic automation framework. This means that our customers can leverage our libraries and get the culmination of our know how in process control & automation as soon as they engage us.

11.7 Marketing, sales and customer service

It is important to be able to promote your products or services effectively. Providing good customer service and having a marketing strategy in place will help you to generate sales.

Commissioning phase 11.8

Project deployment is a critical time in the life cycle of a process automation project. It follows design development and precedes startup/commissioning. During this project stage, the process automation team 'deploys' the Applications they have written and tested with the customers into the plant's systems & hardware.

Automated workflow & data capture 11.9

Whether it's workflow and collaboration add-ins to project management tools or a part of PPM platforms, many solutions now involve the ability to guide work to individuals based on difficult sets of rules. That brings communication of data, the flow of reminders or approval requests of outstanding items. The software may handle distribution and workflow with little manual intervention. It may also integrate with other tools and systems to automate data capture: starting from timesheets to complex code modules.





























































































































































































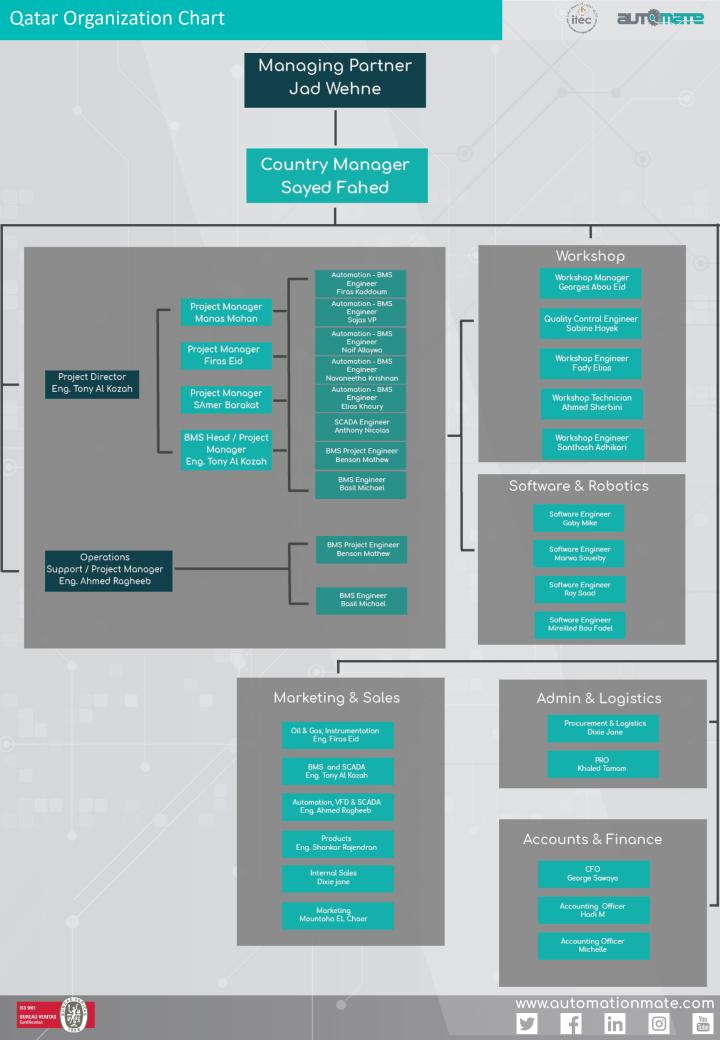


















Not just parts... Integrated solutions.

ITEC (Industrial Technologies), is an electrical distributor company serving the OEM and Industrial market in Lebanon and the Gulf Region where local electrical components stock and high end quality products are not negotiable.

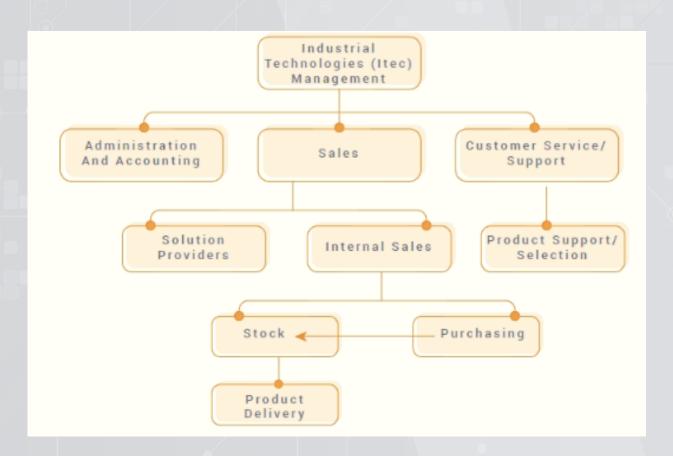
ITEC approach means that just one source can provide a family of products designed to fit perfectly within your own equipment. Look to us for products in Motion Control, BMS (Building Management System), SCADA and DCS Automation Solutions, Variable Frequency Drives & Industrial Networking.

Mission:

Being a leading distribution company and always looking to partner up with the leading international suppliers in order to enhance the productivity, quality and local services. Investing in education by teaming up with universities and conducting technical trainings and seminars.

Vision:

As time and technology move onward, we'll always be ready with the latest products and knowledge to guide your operations into the future of manufacturing.























<u>Pilz</u> is a leading, innovative automation technology company. As experts in the safety of human, machine and the environment, Pilz provides worldwide, customer oriented solutions for all industries. This includes innovative products in the area of sensor, control and drive technology. Our international team provides professional services for Machinery Safety

Performance product range:

- Sensor technology
- Relays Small controllers
- Control systems
- Drive technology
- Networks
- Operating and monitoring
- Software















































































SIEMENS

SIEMENS Ingenuity for life

Single Source Solution Provider For Electrical Components
& Electrical Control Panels

















Low-voltage & distribution. The basis for advanced solutions.

Extremely high demands are made on modern low-voltage controls and distribution: users want cost-effective solutions which can be easily integrated in control cabinets, distribution boards and distributed systems and which can communicate perfectly with each other. Siemens has the answer:

SIRIUS industrial controls and low-voltage power distribution with SIVACON, SENTRON and SIMARIS.

























Here you will find the following drive systems & drive components for a very wide range of applicants.

- * The variable -speed drives from Siemens Drive Technologies are available in a variety of versions which cover all the requirements of modern industrial applicants. The range extends from low-cost versatile converters for small performance capacities through reliable large drives in the megawatt range up to highly dynamic drives for machine tools and production machines .
- * Low-voltage and servo motors for the entire mechanical engineering and plant construction industry the solution for the future: maintenance -free, dynamic and powerful





















Push buttons and indicator lights

Our push buttons and indicator lights feature functionality and a modern design.

















CONDUCTIX wampler

Conductix-Wampfler, fully owned by Delachaux Group, is one of the world leaders in the design and manufacture of efficient energy and data transmission systems for all types of mobile equipment and machinery.

- Conductor Rail Systems up to 2000A including Single Pole, Multi Poles, Enclosed box system with data transmission capabilities
- Festoon Cable Systems offer a complete range of cable trolley systems to support, protect and manage flat round cables for the transfer of electrical energy and data as well as media
- Spring Driven Reels used for the automatic reeling of cables or hoses on various types of moving equipment with different cable configurations and amperages
- Motor Driven Reels using the latest reel drive technologies available, from simple direct drive units that are switch controlled, to the rugged magnetic clutch reels, all the way to the latest frequency controlled drive packages
- Slip Ring Assembles provide the solution to transmit, fluids, gases, electric power and electrical signals from stationary to rotating units in all types of machines
- Cables including Power, Signals, data and mixed type of Flexible cables that perfectly match to our customers' applicants
- Inductive Power Transfer IPT* is a system that makes it possible to transfer power and digital data without mechanical or electrical contact



























BÜRKERT

BÜRKERT is one of the world's leading manufactures of measurement & control systems for liquids & gases.

BÜRKERT Portfolio includes:

- Level Measurement devices based on Vibrating Fork, Ultrasonic, Radar and Micro Waves Technologies.
- Flow Rate devices including differential pressure, paddle wheel, magmeter, oval gear, ultrasonic and innovative SAW technology.
- Pressure Transmitter & Switches
- Temperature Transmitter & Switches
- Analytical sensors including PH,ORP, Conductivity & Chlorine
- Process Valves including Solenoid, Pneumatic, Electric motor Driven, manually operated, Ball Valves, shutoff
 & quick exhaust Valves.
- Cylinder & Actuators including Electric motor and Pneumatic Actuators and Pneumatic Cylinders
- Membrane Pumps for Fluid dosing including Dosing Valve, Micro dosing unit, Pneumatic dosing system & customized solutions



















THERMOKON

Temperature

High-quality materials, modern production processes, and many years of experience: We produce temperature sensors for various applicants in buildings for heating, refrigeration and air conditioning systems.

Humidity

Humidity sensors for reliable detection of relative humidity and temperature in residential and commercial buildings, outdoor resp. in gaseous media of heating, ventilation and air conditioning systems

Air Quality (CO2 & VOC)

Co2 & VOC sensor allow individual and demand-dependent control of external air supply. In modern buildings the use of these sensors is essential in creating energy savings and the comfort levels with the living and working conditions

Pressure

Pressure & air flow sensors for cooling and air conditioning must resist extreme conditions. Therefore our products are customized to withstand even the harshest environments





















WIELAND

The Wieland company is among the pioneers in electrical connection technology. They are the market leader in the area of pluggable installation technology for buildings. industries, automotive and renewable energy system.

Products

- DIN rail terminal blocks
- Building installation systems
- PCB terminals
- Safety technology-Building automation
- Heavy duty connectors
- Electronics for the control cabinet
- Power bus system, buildings
- Power bus system, industrial
- Network & fieldbus systems
- Circular connector system for buildings
- Circular connector system for industry
- Circular connector system for photovoltaics
- Sensor/actuator wiring



































• IDEC

In todays dynamic technological environment, automation & electronic products must change rapidly to provide versatility while supporting increasingly intelligent and networked mechanical systems. With this in mind, IDEC creates products to meet the needs of our customers.

Main Products:

- Relays
- Static relays



IDEC























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ACTION PLAN

- Introductory Site visit by two experienced Team Members: One Mechanical engineer and one Electrical.
- Plan the site visit to be joint with PILZ Visit and/or assistance.
- Prepare list of Requirements by Machine/Line or system n terms of Hardware, Automation, Electrical and Mechanical Requirements.
- ITEC/Automate to coordinate with related partner/supplier to come out with a quote for each machine renovation.
- Upon client approval, proceed with Project implementation by Machine or by set of Machines.
- Deliver systems progressively based on agreed plans and clear schedules approved by both parties.
- **OVERVIEW of TEAM on board for YEMEN Project:**

Design: Two Mechanical Engineers and Three Electrical Engineers.

Implementation Team:

Workshop: 5 Electricians for Design application and Panel Assembly.

Programming Testing and Commissioning: Four Site Engineers with 3 Electricians.













Mechnanical Partners



- POWER MECANIX & Industry (Field of Expertise): Mechanical Engineering Design.
Industrial Manufacturing and Contracting.
Industrial Maintenance of Machinery and Plants.
Machinery Trading.



-OUBARI Industry and Trading:

Oubari Co. takes pride in designing and building novel ideas to solve the most laborious and time consuming tasks in the industry of the oriental sweets, Baklava, Dairy and food processing production. Throughout the three decades, OUBARI has strived to develop solutions that best serve clients, being it ready or custom made, and pursue a regimented aftersales and maintenance follow-up to assure the well satisfaction of clients.



-SCORE:

Steel Construction: which has the primary specialty of steel structured buildings, hangars with overhead cranes, big reservoirs, bridges, fire-escape stairs, steel formworks for concrete, canopies and reinforcements.











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Renovation Project Reference

Pages Teach Teach Country Pages Pa							
Month March Park	Broject number	Client Name	Catagories	Project Description	Dominant Brand	Country	Voor
MANUEL Mark Allean Mark Manuel Manue	Project number						
Manual					SIEMENS	Lebanon	
	TA0002	Air Liquid	Oil & Gas	Renovatino of CO2 Ice making, and process	SIEMENS	Lebanon	2006
INCOMENDATION Contemporary Con	LJ050307	Liban Jus – Maccaw	Food & Beverage-Edible oil	Sidam potunnel	SIEMENS	Lebanon	2006
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				European Made Lifts)			
Process Proc		Husky	Plastic	PET injection machine Renovation	SIEMENS	Lebanon	2010
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	PLC, KTP400	Jihad Eid	Plastic	Injection Machines Renovation	SIEIVIENS	Lebanon	2011
				Full Automation and Control for a CEMENT BLOCK manufacturing			
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	IZ22072011	Zeenni for steel	Steel	Steel rolls cutting line (Converting Line)	SIEMENS	Lebanon	2011
	IGE11082011	RIFAII	Food & Beverage	Peanuts roasting machine	SIEMENS	Lebanon	2012
SCADIOLOGICAL PALIFIE Food & Reverage Supervisor of 2 processes SEMMS Lebaron 2012	ISO03032011	PULPER	Food & Beverage-Edible oil	Intouch upgrade phase 1	WONDERWARE	Lebanon	2012
EUL/2012/12 ETHEL Food & Beverage Departing machine Reposition (1997) Section 1992 Section 1							
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	IN22082012	NAFCO INOX	Food & Beverage	Labneh Line Upgrade	SIEMENS	Lebanon	2012
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AZE08012013 Zeenni Steel Steel SIEMENS automation system for C forming machine Replacement SIEMENS Lebanon 2013							
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APD1202013 EDMINTON CANADA DEM Donaire Machine Upgrade SIEMENS Lebanon 2014 ATM23122013 Nouja Plast plastic industry Automa plastic machine refurbishing SIEMENS Lebanon 2014 ATM270102013 Ethel Chocolate St 97 migration Project SIEMENS Lebanon 2014 ATT91002013 Ethel Chocolate St 97 migration Project SIEMENS Lebanon 2014 ATT91002013 Ethel Chocolate Chocolate Chocolate Chocolate SIEMENS Lebanon 2014 ALC29072013 Ulban Cable Cable industry Cable lune Refurbishing SIEMENS Lebanon 2014 ALC29072013 Ulban Cable Cable industry Cable lune Refurbishing Process SIEMENS Lebanon 2014 ALC29072013 Ulban Cable Cable industry Cable lune Refurbishing Process SIEMENS Lebanon 2014 ASQ5080104 Soprel Cement industries Cement clock mant and ready mix Renovation SIEMENS Lebanon 2014 ASQ5080104 SOprel Cement industries Cement clock mant and ready mix Renovation SIEMENS Lebanon 2015 ALS191212014 SHD Food & Beverage Upgrade of Pre-Treatment plant Rehabilitation SIEMENS Lebanon 2015 ALS19032015 SHD Food & Beverage Upgrade of Pre-Treatment Plant SIEMENS Lebanon 2015 ALS19032015 SHD Food & Beverage PartEXPL (Explainer) SIEMENS Lebanon 2015 ALC1806015 VI Liban Cables Cables Industries Refurbishing or Nokia Maillier extrusion line SIEMENS Lebanon 2015 ALC1806015 SIEMENS Lebanon 2015 ALC203012015 SIGCO Asphalt Asphalt Plant Refurbishing SIEMENS Lebanon 2015 ALC203012016 SIGCO Asphalt Asphalt Plant Refurbishing SIEMENS Lebanon 2016 ALC203012016 SIGCO Coca Cola Food & Beverage Depalletizer Control System SIEMENS Lebanon 2016 ALC203012016 SIGNEMS Lebanon 2017 ALC203012016 SIGNEMS			-	• • • • • • • • • • • • • • • • • • • •			
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ATMO7022014	AAD12082013	EDMINTON CANADA	OEM	Donaire Machine Upgrade	SIEMENS	Lebanon	2013
ATMO7022014 UTM	ANP23122013	Nouja Plast	plastic industry	Automa plastic machine refurbishing	SIEMENS	Lebanon	2014
AFT39102013	ATM07022014		Scada/ power management	HMI upgrade	BECKHOEE		2014
AFT3010013							
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END of Presentation QUESTIONS Thank you for your Attention









