



Industrial
Automation
automation means us
CONSULTANCY **Systems**

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Our Key Points

- About us
- Our Philosophy
- Company History
- Awards
- Our Services
- Our Partners
- Our clients in Automation Consulting
- Our clients we deal with
- Customers Reviews
- Samples of completed Projects
- Contact us





○○○○ About Us

Industrial Automation Systems is an independent company that has shown continued strength and success since its start from 15 years.

Within 15 years, we have done many projects with large companies inside and outside Egypt, and we have also represented many major companies in Egypt, including Schneider Electric.

Our solutions have proven themselves across a wide range of industries and in some of the most demanding manufacturing environments



Our Philosophy

Our Mission

Provide reliable, cost effective and high-quality solutions to all our customers using our Digital transformation and automation consultancy

Our Vision

To be a pioneer special company in global markets, that provides the necessary solutions using cutting edge technology

Our Goals

A company that provides services that exceed the expectations of investors and meet their need

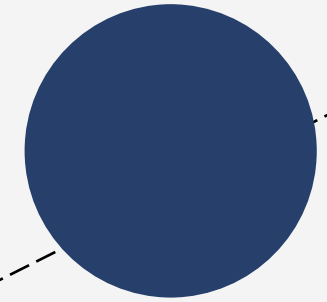


2022

Company History

This structure contains some samples of our projects to illustrate the expansion of our company (IAS) from small projects in our country to big projects outside our country

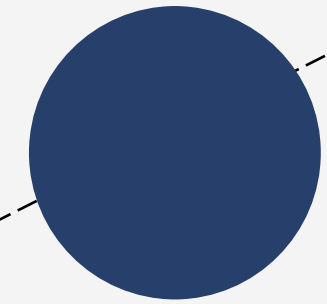
*IAS Started,
First project : EL-Fath
for industrial and free
zone*



2008

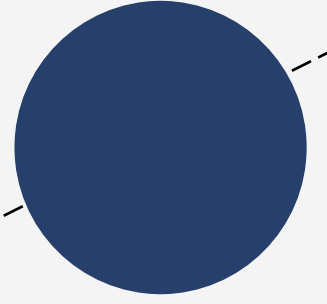
Harbour mobile crane

2009

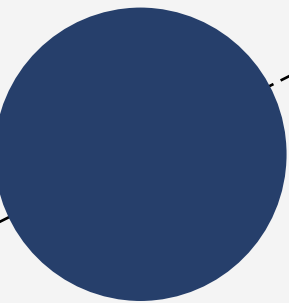


*Alexandria Mills and
Bakeries Company*

2011

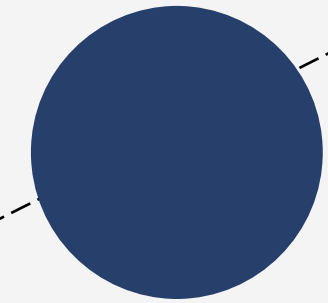


Namaa Feed Factory



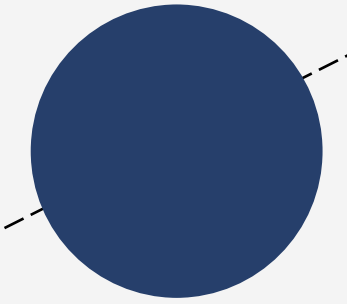
2014

Riyadh Metro

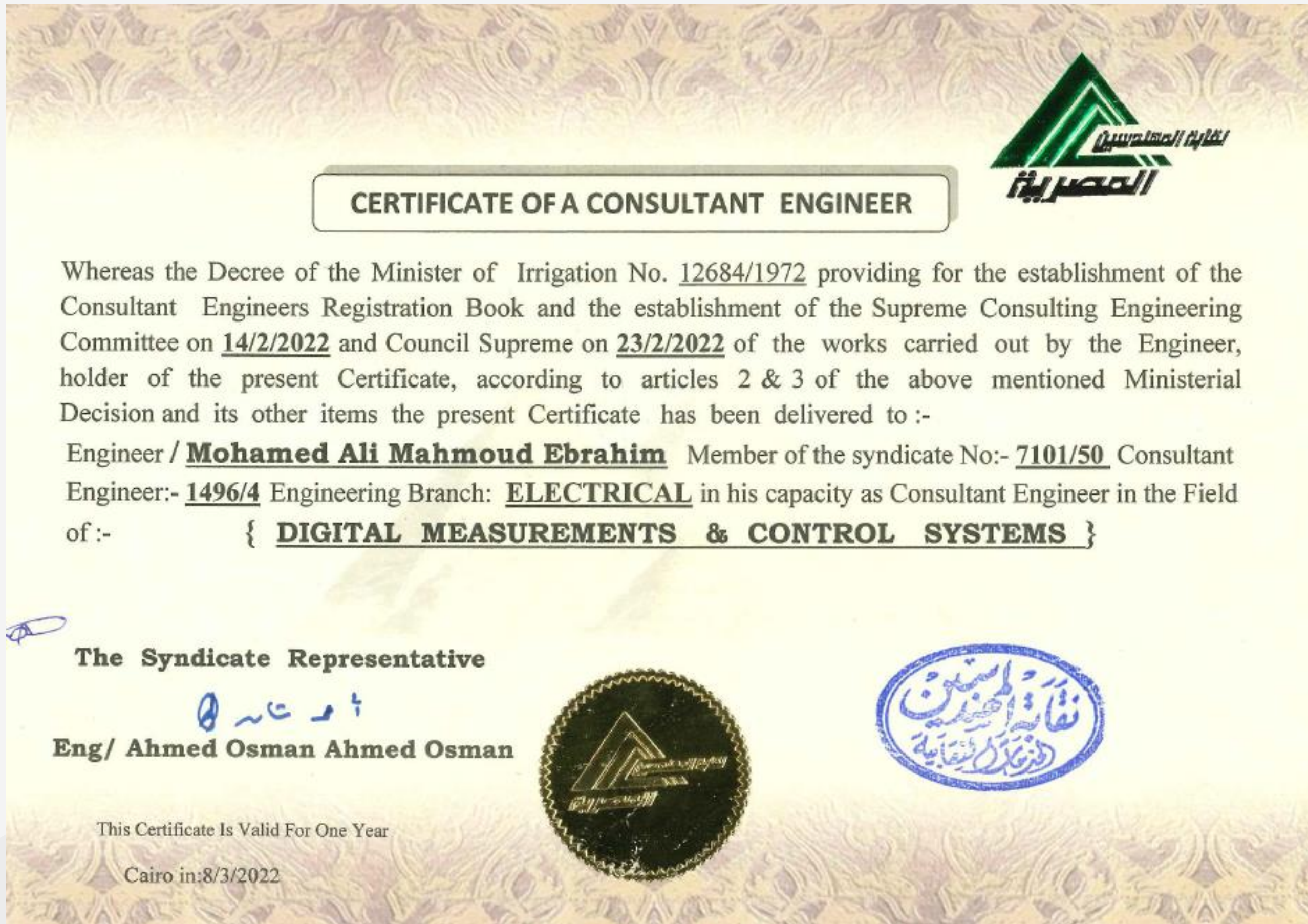


2018

*Digital Transformation
and Automation
Consultancy*



Awards



CERTIFICATE OF A CONSULTANT ENGINEER



Whereas the Decree of the Minister of Irrigation No. 12684/1972 providing for the establishment of the Consultant Engineers Registration Book and the establishment of the Supreme Consulting Engineering Committee on 14/2/2022 and Council Supreme on 23/2/2022 of the works carried out by the Engineer, holder of the present Certificate, according to articles 2 & 3 of the above mentioned Ministerial Decision and its other items the present Certificate has been delivered to :-

Engineer / **Mohamed Ali Mahmoud Ebrahim** Member of the syndicate No:- 7101/50 Consultant Engineer:- 1496/4 Engineering Branch: **ELECTRICAL** in his capacity as Consultant Engineer in the Field of :- { **DIGITAL MEASUREMENTS & CONTROL SYSTEMS** }

The Syndicate Representative

أحمد عثمان أحمد عثمان

Eng/ Ahmed Osman Ahmed Osman

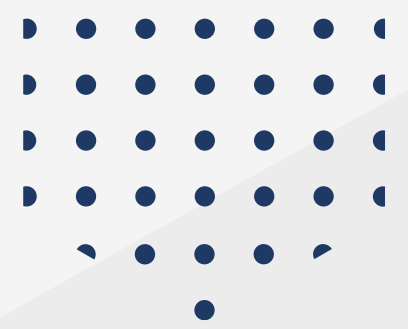


This Certificate Is Valid For One Year

Cairo in:8/3/2022



Our Services



**Digital
Transformation
&Automation
Consultancy**

**IOT,
Industry 4.0
&Automation
Solutions**

Maintenance

**Automation
Training
Courses**



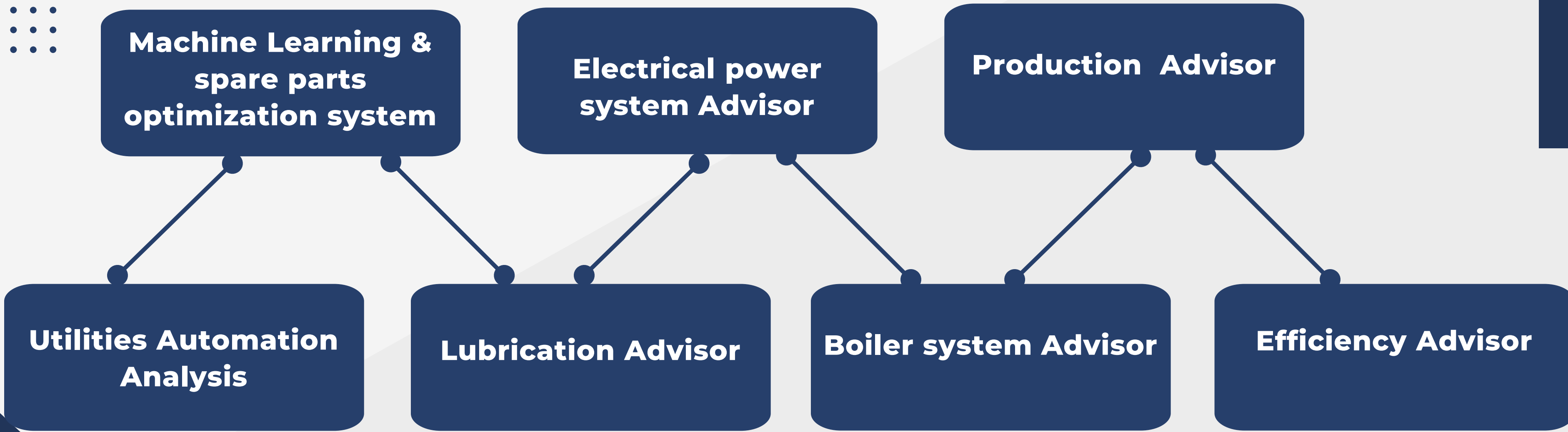


Digital Transformation & Automation Consultancy

Due to our extensive experience in the field of automation and the large number of projects we have implemented, we are specialized in the field of automation consulting.

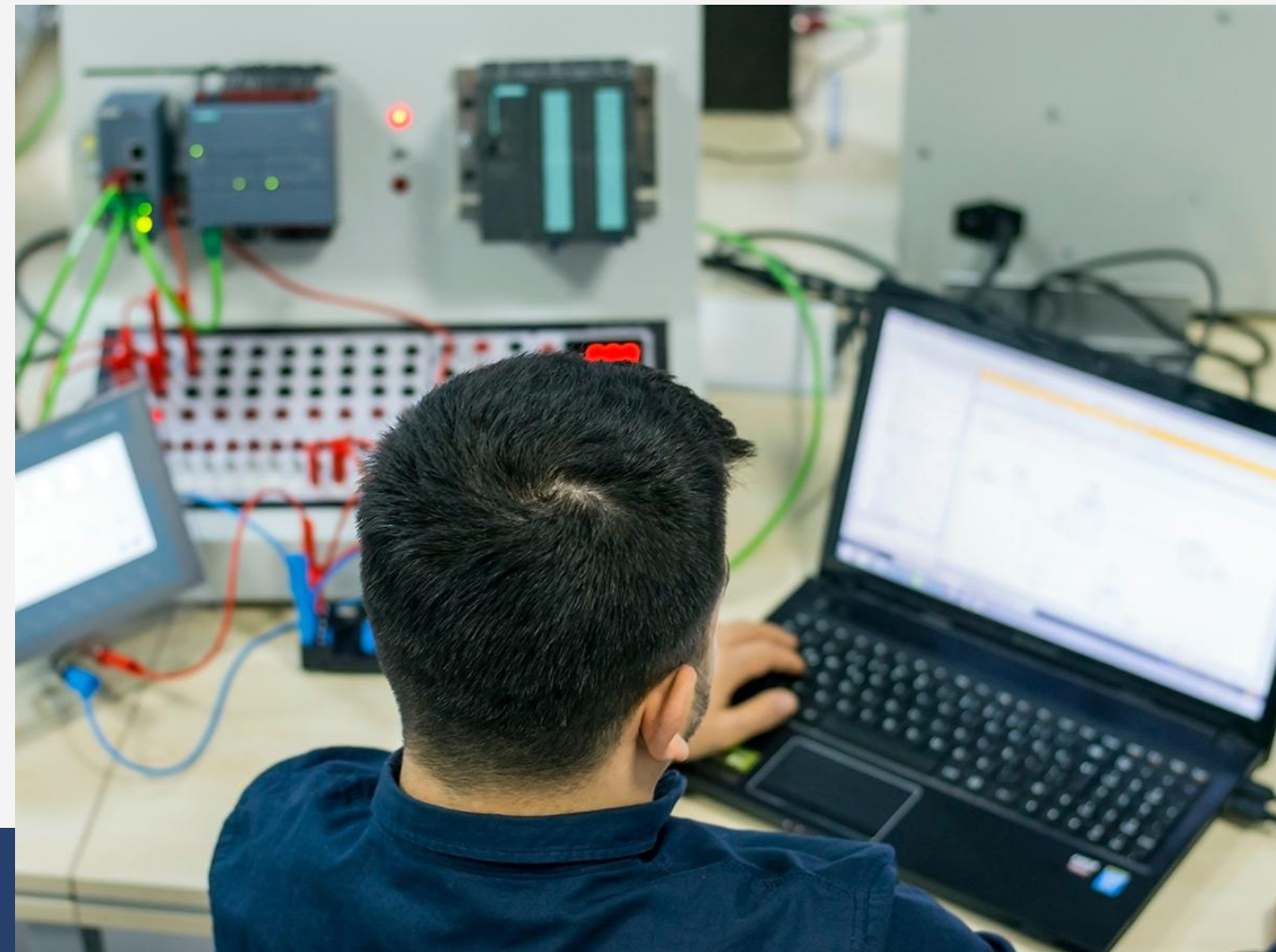
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IOT, Industry 4.0 & Automation Solutions





Maintenance



- We provide a regular and troubles maintenance
- We have done Maintenance projects in many factory such as :
 - Faragallah Co. for Food Industries
 - Koubosh Co. for Packaging Materials
 - Abo Seada Co. for Extracting Oils
 - Extracted oil company, Alexandria
 - Ocean foods for Biscuits and Confectionary
 - Egypt Sweden for Welding Wire (HEDO)
 - Besco Miser for Food Industries
 - El Sewedy Cables
 - Violet factory
 - Porcelain International
 - Amria Company for Cement
 - Coca-Cola
 - PEPSI
 - River foods

Automation Training Courses

- Our highly experienced staff provides training to qualify you to enter the automation Field
- Sample of clients:
 - MANTRAC
 - NASER for Chemicals Co.
 - El-Watania for Oil Manufacturing Co, belongs to Cargel Group.
 - RAKTA Co. for Paper and Carton
 - Egypt Sweden (HEDO) Co.
 - GAS TEC Co.
 - MARA Dive Co.
 - Golden Tex. Co





24/11/2016

Shady Yehia
Industry Business Unit
Schneider Electric Egypt & North East Africa
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Fax: +202 26 189 265
Mob.: +20 1001 079 706
e-mail: shady.yehia@schneider-electric.com

To: Whom it may concern
Subject: System Integrator Authorization Letter

We Schneider Electric confirm that Industrial Automation Systems (IAS) – Eng. Mohamed Ali is an authorized Industrial Automation System Integrator for Schneider Electric, and qualified to perform engineering, configuration, programming, installation, testing and commissioning with our Industrial Automation products, including but not limited to Schneider Electric PACs, PLCs, SCADA, HMIs, RTUs, Soft Starters and Variable Speed Drives.

Industrial Automation Systems (IAS) / Eng. Mohamed Ali have a remarkable track record for successful implementation of SCADA and Automation projects using Schneider Electric automation products.

For further inquires please don't hesitate to contact us.

Best Regards,


Shady Yehia
System Integrator Channel Manager

Schneider Electric Egypt & North East Africa
Land Plot no. 291 & 292, Second District,
Fifth Settlement, New Cairo, Egypt
P.O. Box 11835
Tel.: (+202) 2018 9100
Fax: (+202) 2018 9263

Regional Equipment Factory & Distribution Center
Industrial District 250 Feddans,
Land Plot no. 144 D & 144 H,
East Robeky, Badr City, Egypt
Tel.: (+202) 2865 0000
Fax: (+202) 2865 0199

www.schneider-electric.com/egy
customer care center 19775



Our Partners

We are Schneider electric system integrator



Our clients in Automation Consulting

We are
Digital Transformation
&Automation Consultant
for :

Our clients we deal with





Customers Reviews

شركة الإسكندرية لتصنيع الأعلاف
ش.م.م

تشهد شركة الإسكندرية لتصنيع الأعلاف بأن

السيد المهندس/محمد علي محمود ابراهيم

قد ادى معنا تصميم مشاريع القوى الكهربائية للمنشأة (جهد متوسط جهد منخفض)

والإشراف على التركيبات وقد عمل على اتم وجه وخبره وكفاءة عالية

وقد تم اعطائه هذه الشهادة بناء على طلبه

وتفضلوا بقبول فائق الاحترام

شركة الإسكندرية لاستخلاص الزيوت النباتية (ر)
Adria Company for Vegetable Oils Extraction (S.A.E)

الإسكندرية

شهادة خبرة

تشهد شركة الإسكندرية لاستخلاص الزيوت النباتية بأن

(مهندس/ محمد علي محمود ابراهيم)

يقوم بخدمات فنية في اعمال القوى الكهربائية والتوزيع داخل المنشأة وقد

عمل على اتم وجه وخبرة وكفاءة عالية وقد تم اعطائه هذه الشهادة
بناء على طلبه.

شركة المجد
مروة الداجنية والحيوانية

شهادة خبرة

تشهد شركة المجد لتنمية الثروة الداجنية والحيوانية بأن

مهندس/ محمد علي محمود ابراهيم قد قام بتصميم مشاريع

القوى الكهربائية للشركة (جهد متوسط - جهد منخفض) وكذلك

الإشراف على التركيبات الخاصة بالمشروعات الآتية:

- مصنع أعلاف الدواجن 90طن / ساعة

- مصنع أعلاف المواشي 30طن / ساعة

وقد ادى عمله على اتم وجه وخبرة وكفاءة عالية وقد تم اعطائه

هذه الشهادة بناء على طلبه دون ادنى مسؤولية على الشركة

وتفضلوا بقبول فائق الاحترام،،

شركة الفردوس لمواد الصناعات الغذائية ش.م.م.
AL FERDAWS FOOD INDUSTRIES MATERIALS

شهادة خبرة

تشهد شركة / الفردوس لمواد الصناعات الغذائية - فيمكوبيز

بان (مهندس/ محمد علي محمود ابراهيم)

يقوم بخدمات فنية في اعمال القوى الكهربائية والتوزيع داخل

المنشأة وقد عمل على اتم وجه وخبرة وكفاءة عالية وقد تم

اعطائه هذه الشهادة بناء على طلبه.

وتفضلوا بقبول فائق الاحترام



شهادة خبرة

تشهد شركة المجد لاستخلاص وتكرير الزيوت النباتية بأن المهندس / محمد علي محمود ابراهيم

قد أدى معنا تصميم مشاريع القوى الكهربائية للمنشأة (جهد متوسط - جهد منخفض) والإشراف

الكامل على التركيبات، وذلك من عام 2012 .

وتشهد الشركة له بالكفاءة وبناء على طلبه تم اعطائه الشهادة دون ادنى مسؤولية على الشركة .

وتفضلوا بقبول وافر التحية والاحترام ،،،

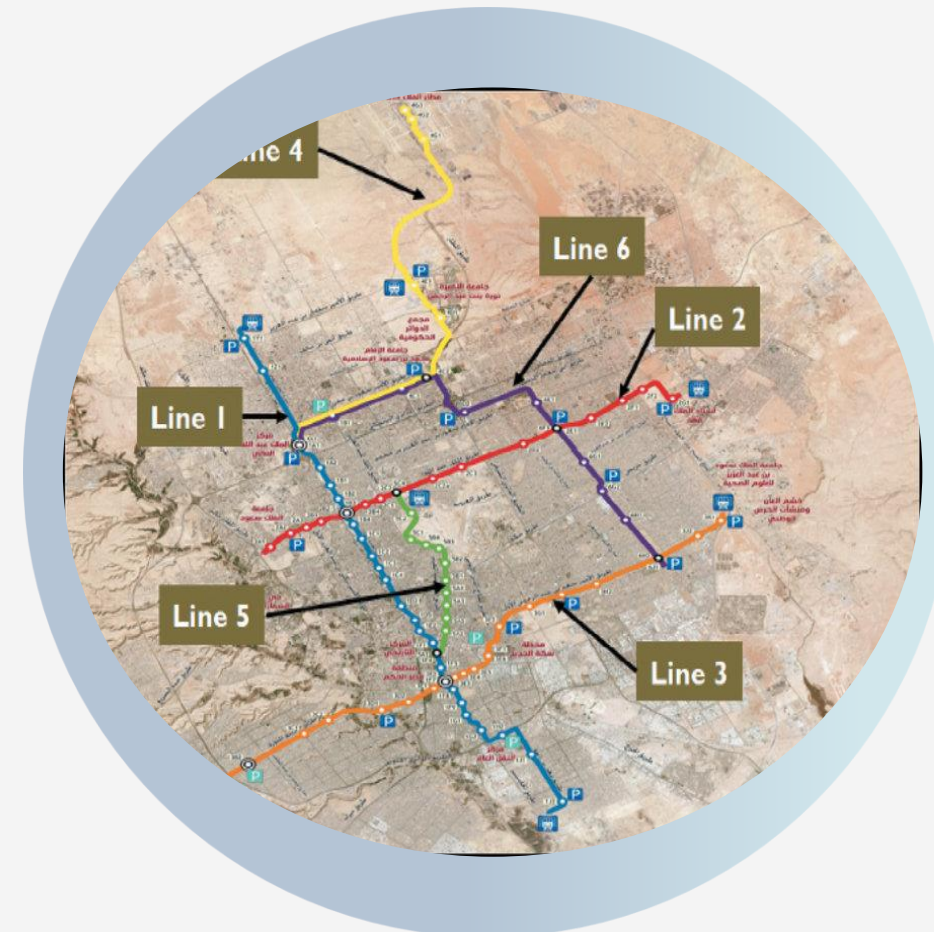
Samples of completed Projects



KSA Riyadh Metro



- Riyadh Metro is a rapid transit system serving the city of Riyadh.
- It consist of 6 Metro lines and Total Length of 176 Kilometers with 85 stations .
- These 6 lines cover most of the highly populated districts, government's facilities, educational and commercials outlets.





KSA Riyadh Metro

- The Total cost of project about \$22 billions to build and it is scheduled to open in 2019 .
- our mission to establish and Install PLC and HMI (SCHNIEDER) software cover 93 Electrical substations for Lines (4, 5 and 6) cooperation with ALSTOM.



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Alex. seeds for oil extraction



- Alex Co. is one of the major Oil seeds processors in the Middle East and Africa
- The plant is located in Borg El-Arab – Alexandria – Egypt
- Alex Co. has also a sister refinery plant “Amria Company for Industrial Oils and Fats” specialized in refining soybean oils.



Alex. seeds for oil extraction

Since we are consultants for (Alexandria Seeds for Oil Extraction) company in the Automation systems, we have provided them with the following:

- ❖ Automation study for operations
- ❖ Sites automation survey
- ❖ Automation designing for operations (PLC,SCADA, and Instrumentations)
- ❖ Preparing automation consultancy documentations
- ❖ Study company technical offers and prepare report about them



Alex. seeds for oil extraction

Since we are consultants for (Alexandria Seeds for Oil Extraction) company in the Automation systems, we have provided them with the following:

- ❖ Making FAT(factory acceptance test) for automation panels
- ❖ Making SAT(Site acceptance test) for automation panels
- ❖ Making modifications for PLC programs and SCADA
- ❖ Add five new SCADA inside factory



Harbour Mobile Crane
Port Said Containers & Cargo Handling

Industrial Automation System
automation means us

724 El Horia St, Loran - Alexandria
Tel./Fax: 03 5850675 Mobi.: 0124088606
www.ias-egypt.com ias@ias-egypt.com



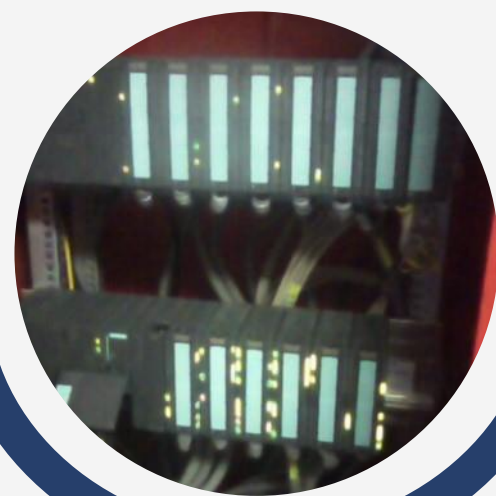
Harbor Mobile Crane Upgrading Control System

- This project is considered as the first mobile crane made retrofitted by Egyptian hands
- It includes design and monitoring the control system, Installation, programming, commissioning and startup of the crane SCADA system using PLC type S7-300 from SIEMENS



Harbor Mobile Crane Upgrading Control System

Upgrading Control System of Harbor mobile crane (which found in Port Said Containers Terminals) from old and Absolute SIEMENS Step 5 to latest technology SIEMENS Step 7 PLC System and building its SCADA system based on WinCC technology to maintain high performance, rapid maintenance and troubleshooting.





Industry 4.0 solution with STREAMLINE

- We drive innovation in collaboration with partners and customers creating leading technologies, products and solutions bringing value to real-world challenges.
- STREAMLINE is an Integrated Automation Solution Based On IIOT Developed by I.A.S Company Targeting a Number of Industry Sections





Industry 4.0 solution with **STREAMLINE**

Benefits

- Getting the best parameter you have to operate your machine to get maximum efficiency from it
- Solving problems inside machine operation
- Solving problems inside product process
- Stop cost darning in martial and on electricity bills
- saving long life time for machine
- helping decision maker for taking best decision
- Helping another department for following factory behavior such as (laboratory, production section, quality control section, maintenance section and ... Etc.)
- Providing Predictive maintenance advice
- Reducing shutdown time



El Watania factory

- Made acceptance tests for automation (PLC &SCADA) work
- Provide the following :
 - ❖ Automation study for operations
 - ❖ Sites automation survey
 - ❖ Automation designing for operations (PLC,SCADA, and Instrumentations)
 - ❖ Preparing automation consultancy documentations
 - ❖ Study company technical offers and prepare report about them





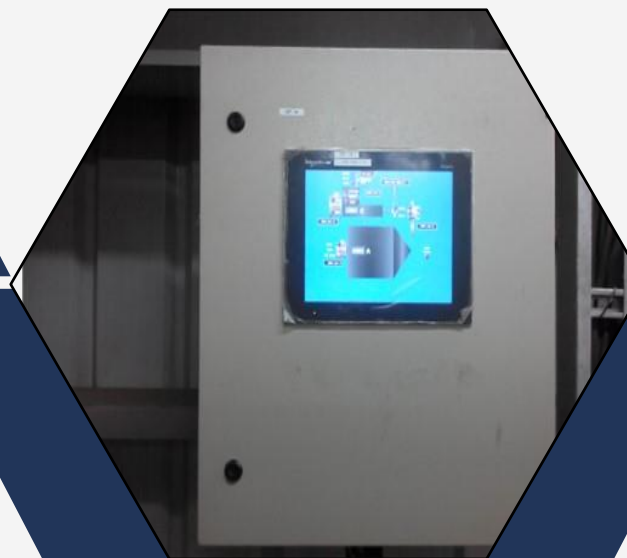
El Watania factory

- Provide the following :
 - ❖ Making FAT(factory acceptance test) for automation panels
 - ❖ Making SAT(Site acceptance test) for automation panels
 - ❖ Making modifications for PLC programs and SCADA
 - ❖ Add five new SCADA inside factory



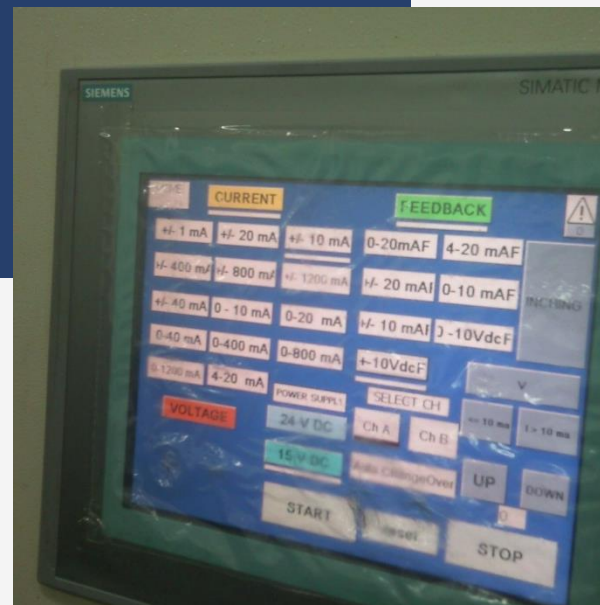
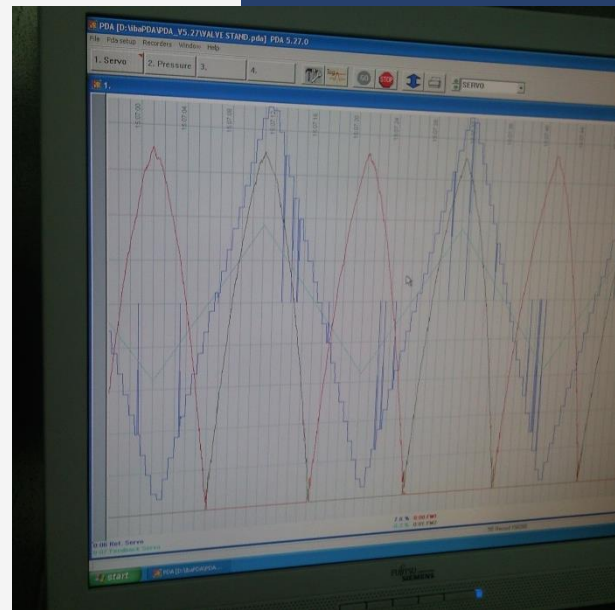
NAMAA FEED FACTORY

- Namaa feed factory is the biggest feed factory in Egypt we build all automation work
- we did all control system which contents of:
 - i. MASTER PLC more than 2000 IOs
 - ii. 3 SCADA systems WONDERWARE
 - iii. 4 15 inch screens
- (PLCs, SCADAs,HMIs) With Schneider automation portfolio





Ezz EL-Dekhila for Iron and Steel



- Development of the test and trend system for the valves' hydraulic test laboratory, to assess valves standards and free mode test using Siemens step7 300 and HMI
- more than 30 type of valves and customize mode for any new valve with accurate signal test
- it become very important lab to evaluate valves in metal industries
- Monitor, test, and tune system performance
- Provide engineered solutions to failures and issues
- Documents all work on drawings, diagrams, and test reports



El MAGED ***for oil*** ***extraction***

- Made acceptance tests for power and control Indian work
- Design all power system for a big oil factory 750 ton per day (medium voltage ring –transformer – main distribution board – cable system – lighting system – motor control system - lighting system – earthing system).
- Analyze current equipment for process suitability and provides detailed plans for improvement
- Make recommendations for optimization or modifications as needed for new packaging designs



المجد

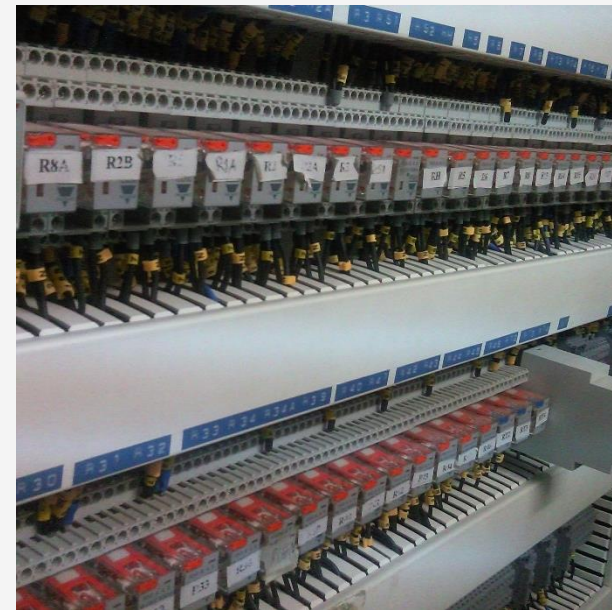
— استخلاص وتكرير الزيوت النباتية —



KENANA for oil extraction

- Made acceptance tests for power and control Indian work
- Design all power system for a big oil factory 750 ton per day (medium voltage ring –transformer – main distribution board – cable system – lighting system – motor control system - lighting system – earthing system).





○○○○ *Sphinx factory: (Petroleum Field)*

- Design of the control and automation system
- programming, commissioning and startup of SIEMENS PLC
- Make sure project comply with the standards, regulations and procedures in effect
- Maintain Test Environments and debug applications
- Monitor automation project and ensures that project are completed on schedule and within budget



International Oil Extraction Co.

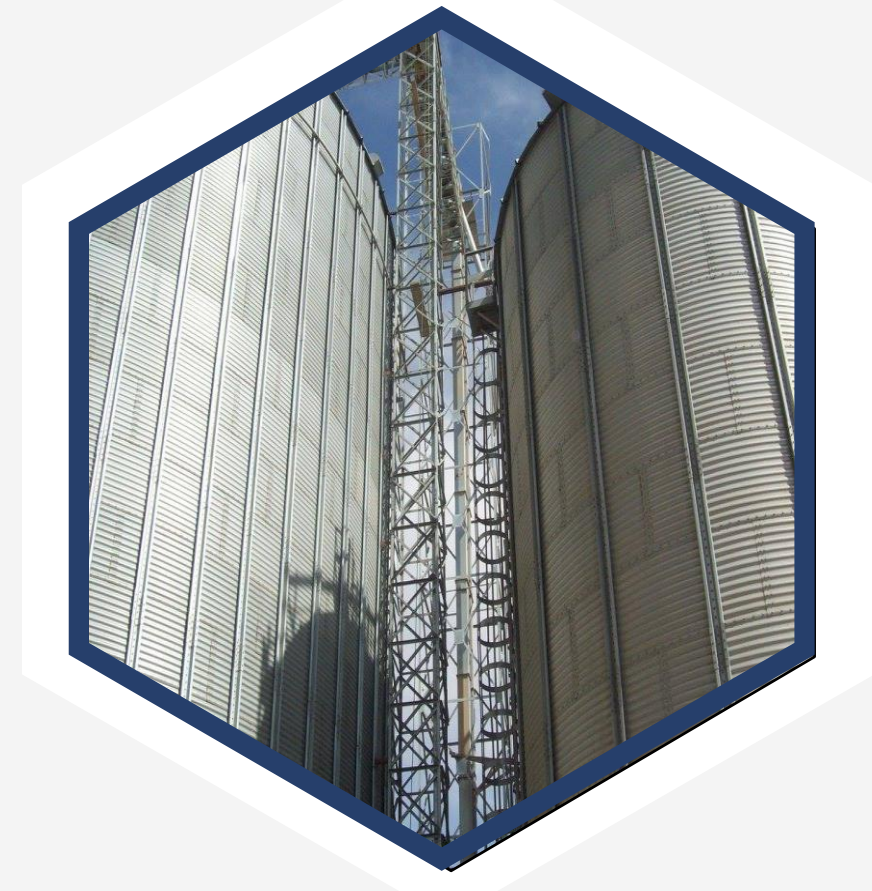
- Made acceptance tests for power and control Indian work
- Design all power system for a big oil factory 750 ton per day (medium voltage ring – transformer – main distribution board – cable system – lighting system motor control system - lighting system – earthing system).





Alex feed Co.

- Made acceptance tests for power and control China work
- Design all power system for a big oil factory (medium voltage ring – transformer – main distribution board – cable system – lighting system – motor control system -lighting system – earthing system).
- Manage projects through all phases of design, construction, testing, and commissioning
- Perform preventative maintenance and repairs
- Ensure that installations and applications are in line with customer needs and safety standards
- Make recommendations for optimization or modifications as needed for new packaging designs





El-Menofy intake regulator

- Create a solution using HMI and control system for Nile traffic regulation using S7-200 PLC.
- Develop manufacturing processes according to global engineering codes and standards
- Perform the design, installation, and commissioning of site equipment and associated control systems
- Manage engineering project and deliver it on time
- Maintain well organized records of test results and generate historical analysis of test results



Generators synchronization

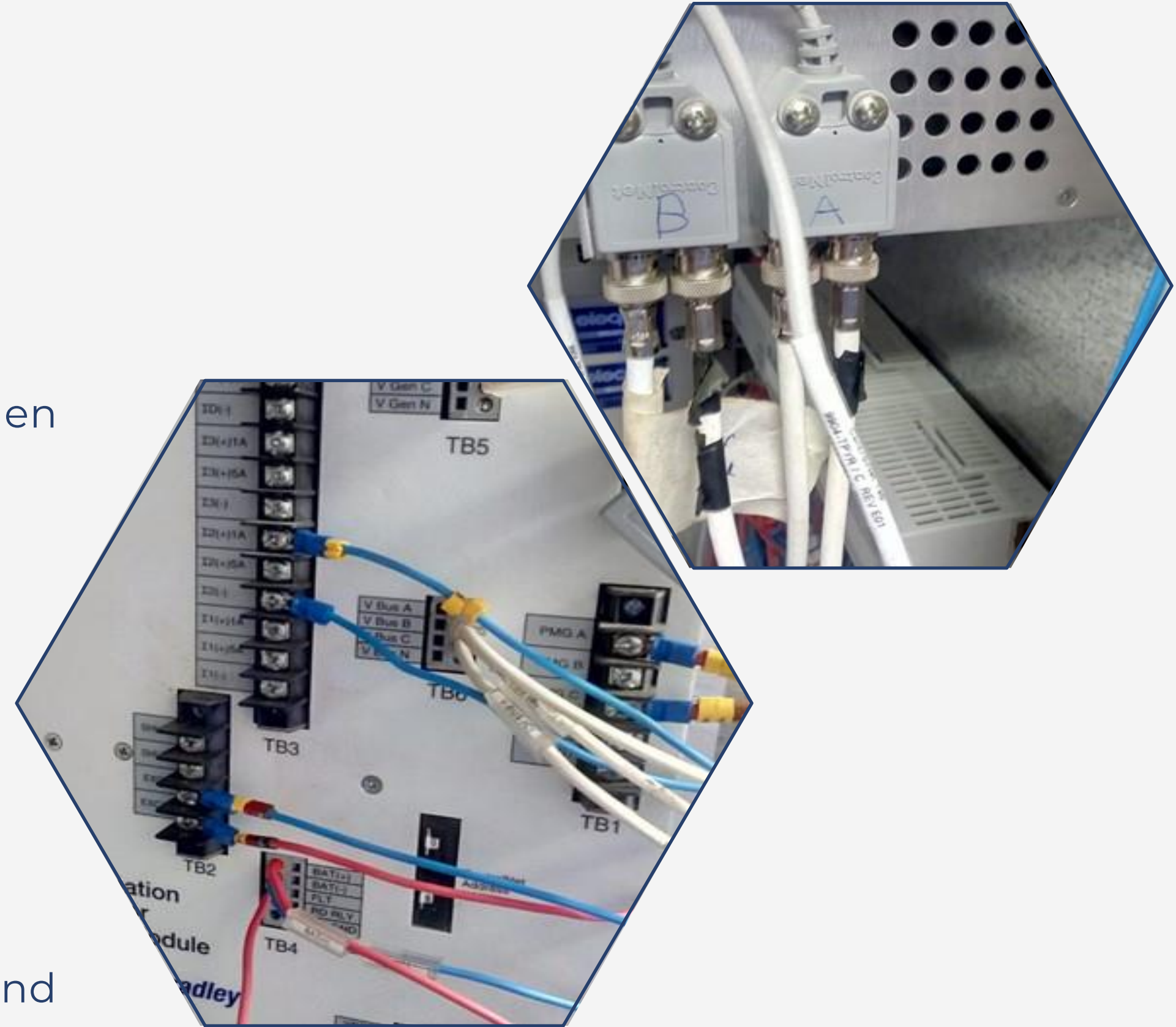


- PLC and HMI systems control and operate synchronization system between four caterpillar generators
- Design and implement data communication protocols
- Perform safety inspections and craft risk assessments
- Develop manufacturing processes according to global engineering codes and standards
- Perform testing and commissioning of electrical systems
- Documents all work on drawings, diagrams, and test reports



HPI power generation Automation

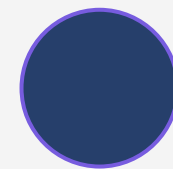
- We did many maintenance site for HPI using Allen Bradley PLC :
 - I. WEBCO petroleum company
 - II. SOUCO petroleum company
 - III. BALEEM petroleum company
 - IV. RAS SHOKEER petroleum company
- Maintain well organized records of test results and generate historical analysis of test results





EI MAJED for feed presses

- Fully automated systems for three Huge feed presses using 3 PLC and 3 HMI connected to all factory control
- Manage projects through all phases of design, construction, testing, and commissioning
- Develop project schedules and work plans to minimize construction timeline
- Ensure that installations and applications are in line with customer needs and safety standards
- Make recommendations for optimization or modifications as needed for new packaging designs





KSA Riyadh Arabsat power station

- KSA Arabsat power station maintenance operation with Schneider plc
- Ensure that installations and applications are in line with customer needs and safety standards
- Ensuring project completion within the assigned budget and deadline
- Maintain well organized records of test results and generate historical analysis of test results
- Monitor maintenance and inspection plans
- Perform testing and commissioning of electrical systems
- Documents all work on drawings, diagrams, and test reports





Masria-Saudi for salts, belongs to El-Gharably Group

- Made acceptance tests for Automation (PLC&SCADA) work
- Ensure that installations and applications are in line with customer needs and safety standards
- Develop Automated Test Strategies and execute test cases, scripts, plans and procedures
- Maintain Test Environments and debug applications
- Documents all work on drawings, diagrams, and test reports

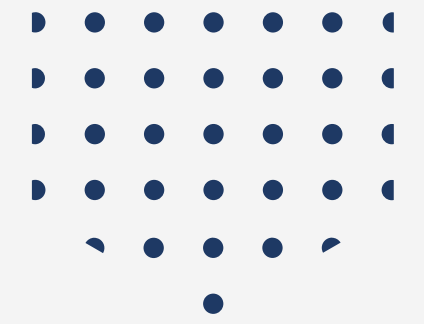


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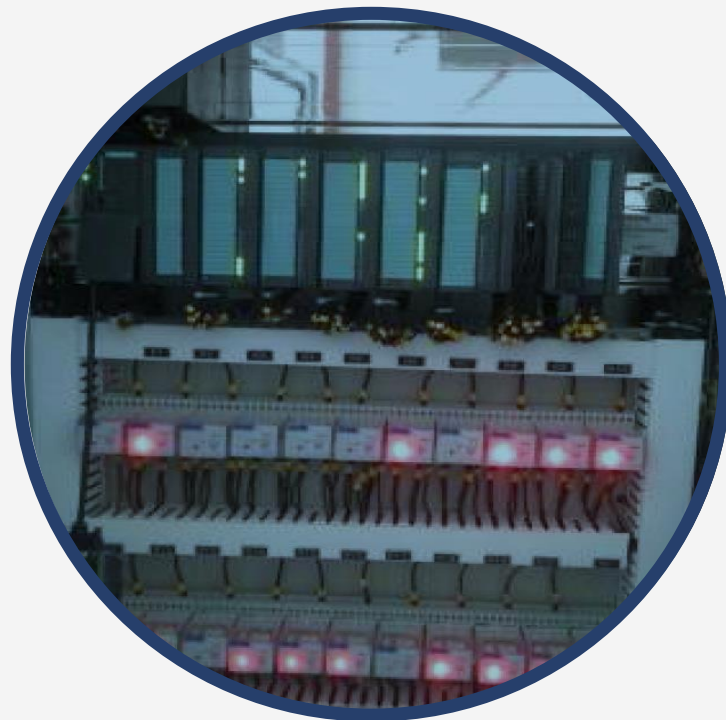
EI MAJED for feed main power panels



- Fully design for main distribution panelboards for AL-MAGED feed factory
- Design and plan electrical systems, including power, communications, and data
- Develop project schedules and work plans to minimize construction timeline
- Perform testing and commissioning of electrical systems
- Monitor maintenance and inspection plans



Gum production line FEMCO



- Control system for milling using Siemens step 7 300 and HMI
- Manage projects through all phases of design, construction, testing, and commissioning
- Make sure projects comply with the standards, regulations and procedures in effect
- Design and implement data communication protocols
- Perform testing and commissioning of electrical systems
- Perform quality and performance analysis
- Documents all work on drawings, diagrams, and test reports



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Fertilizers factory (UOROFERT)



- programming, commissioning and startup of the SCADA system, using STEP 7-300 SIEMENS PLC and WINCC software for all signals to control and monitor system for milling using Siemens step 7 300 and HMI
- Make sure projects comply with the standards, regulations and procedures in effect
- Design and implement data communication protocols
- Perform testing and commissioning of electrical systems
- Perform quality and performance analysis
- Documents all work on drawings, diagrams, and test reports



El Gobial potable water station (Marafiq)



- Design and programming fully automated system for potable water pump station in KSA Dammam MARAFIQ authority
- Design and plan electrical systems, including power, PLC programs, communications, and data
- Monitor project and ensures that project are completed on schedule and within budget
- Develop Automated Test Strategies and execute test cases, scripts, plans and procedures
- Documents all work on drawings, diagrams, and test reports



Vinous container ship

- Installation, programming, commissioning and startup of the SCADA system, using STEP 7-300 SIEMENS PLC and WINCC software for all signals to control and monitor the entire ship process
- Develop manufacturing processes according to global engineering codes and standards
- Maintain and upgrade control systems
- Perform safety inspections and craft risk assessments
- Design and implement data communication protocols



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Abu-Qir water treatment power station



- Abu-Qir water treatment power station, done on behalf of El-Gharably Group
- Made acceptance tests for Automation (PLC &SCADA) work
- Ensure that installations and applications are in line with customer needs and safety standards
- Ensure new equipment functions properly, meets specifications, cost targets, and timing plans
- Maintain Test Environments and debug applications



Exxon mobile

- Doing maintenance for the control system and Allen-Bradley SCADA system
- Ensuring project completion within the assigned budget and deadline
- Maintain well organized records of test results and generate historical analysis of test results
- Monitor maintenance and inspection plans
- Perform testing and commissioning of electrical systems
- Documents all work on drawings, diagrams, and test reports



Other industrial projects



- ❑ Drums production line : Migration from the old PLC system to the last up-to-date SIEMENS PLC system (S5 to S7)

- ❑ Dosra production line: Migration from the old PLC system to the last up-to-date SIEMENS PLC system

- ❑ Boring machine : CNC retrofitting of a massive boring machine at the marine workshops using PLC system from Siemens

- ❑ Alexandria for petroleum nitrogen unit : Replacement and Renewal of Siemens PID controllers in the nitrogen production unit from SIPART(Migration of all old programs)

Other industrial projects



- ❑ Misr El- Higaz air system control : Control system retrofitting of a plastic production line

- ❑ Alarming system SOPRIMA : Design and installation the alarming system for SOPRIMA production line

- ❑ Illumination system SOPRIMA : Design and installation the illumination system for SOPRIMA production line

- ❑ Crush production line for carbonated water: Migration from the old PLC system to the last up-to-date SIEMENS PLC system (S5 to S7) with HMI

- ❑ Mill production line : Control miller production sections system for milling using Siemens step 7 and HMI



Other building projects

Elevators in collage hospital : Design and programming a PLC system for elevators

El-Salam building elevators : Design and programming a PLC system for elevators

Stanly building elevators : Design and programming a PLC system for elevators



Other building projects

El Ansar elevator : Design and programming a PLC system for elevators

Port Said fountain : Design and programming a PLC system for one of the largest fountains in Egypt

ABO AL ABAS fountain : Design and programming a PLC system for fountains in ABO AL ABAS ALEX
SQUER



Contact us

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