Mohamed Elwardany

SENIOR PROJECT APPLICATION ENGINEER AT INVENSYS

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Objective

Seeking a challenging Mid-level position as full-time and permanent in a multinational company that works in the field of automation or in the field of embedded control system as Technical Engineer or Sales Engineer.

Summary

I am familiar with the duties since I was one of several technical engineers with ABB EGYPT, before moving to EAST Company in EGYPT as Technical Engineer then moved to Invensys company as Triconex Senior Project Application Engineer based in Egypt office.

I'm specialized in working with the production, engineering, or research and development departments to determine how products and services could be designed or modified to suit customers' needs.

Work History

Mar 2012 - Present

Senior Project Application Engineer
Invensys

Main Responsibilities:

• System specification, design, implementation, configuration for Invensys product specialist in TRICON and TRIDENT.

• To define and configure sequential, continuous and ladder logic from client P&IDs and technical descriptions.

• Provides post-sales technical expertise during the installation, implementation and maintenance of company products, following detailed customer installation requirements.

• Ensures that client's needs have been met and that the product/solution is fully functioning according to specification.

• Support to company sales staff and customer personnel by disseminating technical information on specific applications.

● **Site visited and work done (with Invensys)**:

• *Saudi Kayan Project (Engineering in Singapore) :*

FAT activities - Logic implementation and testing - Data base handling - Integrated FAT with YOKOGAWA DCS - Network installation - PLC panels power up - Loop check - Program modifications - Startup assistance - Handing over

• *Qatar Gas HELIUM (II) (Engineering in Qatar) :*

SAT activities - Integrated SAT with EMERSON DCS - Loop check - Program modifications - Functional check - Handing over
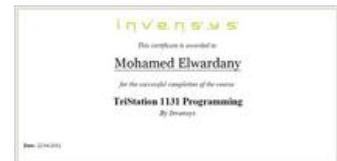
• *Revamp existing ESD Yokogawa Solid state relay system to Tricon (Engineering in Egypt) :*

Hardware installation -Hardware design -Network connection -Cabinet engineering -DB Handling

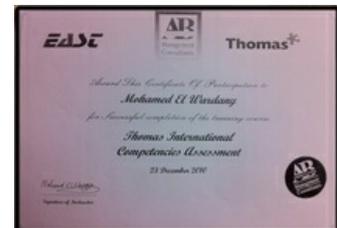## Portfolio

Invensys Operations Management
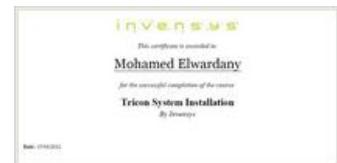
TriStation 1131 Programming

software course in Tristation which it's the programmable tool for the Tricon PLC

Problem Solving The Fundament..

competencies assessment (Thom..

Tricon System Installation

hardware training for the Tricon PLC

Network plus Microsoft (PRIME)

Expert knowledge with all of Network Topologies like (Ring, Star, Line, Bus, Tree, ... Etc)

Saudi Kayan Project (Engineering in Saudi Arabia) :

SAT activities -Material inspection -Network installation -Panels power up (Marshalling and System Cabinets) -Loop check -Program modifications - Leading the commissioning -Post start up assistance -Handing over

SAMREF CFP Project (Engineering in Saudi Arabia) :

SAT activities -Loop check -Functional check -Program modifications - Material inspection -Commissioning and startup -Handing over

SHAYBAH IGHC Project (Engineering in Saudi Arabia) :

SAT activities -Loop check -Functional check -Program modifications

Jan 2011 - Dec 2011	Technical Sales Engineer

Technical Sales Engineer
EAST (Engineering And Service Technology)

• Tenders study: Study the tender specifications, device selection, estimate cost and required materials, verify standards, make site inspection when needed, get quotation for services and products required to achieve required specification of the tender and negotiate payment,delivery and warranty conditions.

•Technical support, PLC selection, configures full PLC system with SCADA system with regard to the client's needs.

• Responsible for all aspects of supporting the tendering within Sales and Marketing.

• Support the proposal manager and to execute the effective delivery of the tender on time and to budget.

• Support the commercial and contractual proposal management.

• Support project schedule on time execution.

• Support the electrical engineering function for the proposal.

• Develop close relationships with specific members of the customers organization to support the proposal management process.

Technical Automation Engineer
Aug 2007 - Dec 2010

EAST (Engineering And Service Technology)

I am responsible for automation and controls systems design, specification, programming, simulation, testing, and start-up assistance.

Have proven experience in PLC logic and programming with the following PLC:

Siemens types (S7-400, S7-300, S7-200) and HMI, SCADA programming configuration of any of the following software packages Wonderware (INTOUCH) and Siemens (WinccFlexible).

- **Site visited and work done (with EAST)**:

• Factory Mania for wheat :Service fixing some problems happened in PLC siemens S7 300 downloading the programming and start up the system again.

• Cement Taurah :Configure instrument (touch screen panel) and take a backup from installed instrument and download it in the new screen panel.

• Suez Cement :Install license of 800XA service account.

• Commissioning and Start up of EL Arish armed forces factory for paste

• Rapping Filters Project in Suez Cement company

• ATS panel in CEMEX company

• Qutamia Cement company

Hardware PC A plus Microsoft (P..

Expert knowledge to how to deal with the PC and make a maintenance to it

Low and Medium voltage (ABB)

course in ABB products of Low and Medium voltage at ABB Factory

PLC and SCADA Systems (ABB)

course in PLC and SCADA system at ABB Factory

• EFACO upgrade from ABB advent system to Siemens S7300 PLC system with INTOUCH Wonderware SCADA system

Jan 2006 -
Jul 2007

Systems' Engineer
ABB

DCS system programming and commissioning using 800XA software built-incontrol builder M and SCADA programming.

Experience in:

Software programming tools :(AC800M, 800XA 4.1, AC31 graph).

- **Site visited and work done (with ABB) :**

• HABBY ON-SHORE (OIL AND GAZ):Replacement of advent controller DCS system with new 800XA DCS system.ENG: AHMED MOHSEN

• ALEXFERT:Commissioning and start up of ABB DCS 800XA control system of the station.ENG: WESAM HANDE

• FIRAN DELIVERY STATION (PETROBEL):Commissioning and start up of ABB DCS 800XA control system of the station.ENG: ABD EL-RAHMAN

• BACK WASH (PETROBEL):Service, repairing converter by subcontractor after they finished their work the system had been shutdown by them, I fixed the problem and start up the system during little timeENG: HESHAM ELDEAB

• NASR COMPANY (NPC):Build up 800XA DCS systemENG: ASHRAF KHALED

Education

Sep 2000 -
Jan 2006

Electrical and Computer Engineering Bachelor's degree
Higher Technology Institute

In the nineteen eighties a group of Egyptian nationals comprising former senior officials, educators, businessmen & industrialists formed the foundation of new urban communities, a non-profit Organization, aimed at helping the government & the private sector in reclaiming the vast desert areas of Egypt, The group soon recognized the need for engineering education of a special nature that would be located in the new urban communities & geared at satisfying the needs of the growing industrialization & construction efforts in these communities.

In 1988 the higher technological institute (HTI) opened its doors to new students as the first private university level institute for engineering educational in Egypt The new Institute was born strong and grew quickly in quality and reputation. Now, more than twenty years after its inception it has become the most sought after private engineering institute in the country.

Skills

Tricon / TriStation

Principals of Tricon Design Using TriStation 1131 Developer's Workbench TriStation 1131 Application Development Database Handling SOE Configuration Program Emulation Enhanced Diagnostic Monitor

ABB (800xA) with Control Builder M

I have a good knowledge in how to deal with ABB software of industrial IT 800XA with control builder M, that's because i have worked in a lot of projects with ABB with this software also in EAST Company i have finished two projects with the same software.

Siemens PLC

Have proven experience in PLC logic and programming with the following PLC: Siemens types (S7-400, S7-300, S7-200) using Simatic Manager and Microwin Siemens software

Siemens SCADA

Programming and build full configuration network for SCADA using the following :
Programming tool (WinccFlexible) TP (Touch Panels) MP (Multi Panels) TD (Text Display)

VijeoCitect Schneider Electric SCADA

Programming and build full configuration network for SCADA using VijeoCitect

INTOUCH Wonderware SCADA

Good Knowledge of INTOUCH Wonderware SCADA software, actually i have made one project with it.

Substation Automation System (SAS)

Programming and build full configuration using PACIS software of Schneider Electric in substations systems

AutoCAD

I was drawing the layout of panels with Autocad by real dimensions.   Put all component of PLC or DCS in panels and decide where the component will be placed in the panel.

EPLAN

It's the same like Autocad drawing the panels and put the component but this time in more professional way because EPLAN give me more properties which i can use like the numbering of the cables, EPLAN can make it automatically without any effort like Autocad.

Windows and Microsoft Office

I have excellent knowledge in how to use windows and make the templates which i need with Microsoft Office and that's because i have taken a course in Microsoft (PRIME) company in the following material :   Hardware PC A plus software and hardware PC Network plus

Certifications

Tricon system installaion
Invensys

Competencies assessment
Thomas

Network plus
Microsoft (PRIME)

Hardware PC A plus
Microsoft (PRIME)

Low and Medium voltage
ABB

PLC and SCADA Systems
ABB

Interest

- I love to travel all over the world
- Develop websites, like (www.mobilycenter.com)