

Nidhal BEN SOLTANE

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Senior Automation Engineer

FORMAL EDUCATION

2012: Engineering Degree in industrial computer Science – National engineering school of Sousse– Tunisia

2009: Preparatory course for engineering schools in Math and Physics– Preparatory Institute for Engineering Schools of Bizerte – Tunisia

2007: Baccalaureate in Math– high school 15 October 1963 Bizerte – Tunisia

TRAININGS & CERTIFICATIONS

2023: Lean Six Sigma Green Belt

2023: industrial helper training with firefighting

2022: Prince2 foundation Certification for Project Management

2020: Quick box and pallet systems training

2020: VCA & BA5 certificates

2020: Pfizer, Johnson & Johnson, kuka, Volvo safety trainings

2020: cranes training

2020: lightgood system and Beckhoff twincat 3 training

2019: SIGUSFA Site Safety induction and commissioning training by ThyssenKrupp industrial Solutions

2017: QNCC Site Safety induction and commissioning training Fives FCB

2016: KEBIFA Site Safety induction and commissioning training ThyssenKrupp industrial Solutions

2016: Hands-on Training on ABB AC800M

2015: Hands-on Training on Allen Bradley RSlogix5000 and ECS/ACESYS V7.7

2015: Hands-on Training on Siemens PCS7 Cemat V8.0

2013: Hands-on Training on Siemens PCS7 POLCID

2011: English International Communication (TOEIC) certification

EXPERTISE

- Project Management.
- Familiar with Pharmaceutical, par-pharmaceutical, alimentary, cars, petrol, Mining projects
- Logistics project for all types of goods (pallets, boxes, and even cars chassis) design commissioning and technical assistance
- Heavy Industries project leading / engineering (technical and supervision).
- Allen Bradley, Siemens, ABB and Beckhoff functional / technical analyzing, programming, commissioning, and troubleshooting.
- Technical coordination and team leading during design, implementation, FAT and SAT.
- Helpdesk technical assistance in call or onsite 24/24hr and 7/7days
- Project technical documentation, designing and updating (functional analyses, system architecture, I/O list, panel layouts, logic diagram, technical reports, production reports ...).
- HMI design / programming and SCADA.
- Network design, installation, and troubleshooting (Profibus, Ethernet, CAN, PointIO, Fiber Optics, Modbus, EtherCAT...).
- Control Loops and PID tuning
- Simatic Fail-safe CPU and Twinsafe programming

TECHNICAL KNOWLEDGE

PLC

Rockwell RSlogix5000, Siemens STEP7 V5.5, TIA PORTAL V13, V14,V15,V16 (for S7-400, S7-300, S7-1200,S71500), SIMATIC S7-SCL, S7-400 Fail-Safe CPU, Beckhoff twincat3, TwinSAFE

SCADA/HMI

Rockwell Factory Talk, Siemens WinCC, FLSmidth ECS

COMMUNICATION PROTOCOLS

MODBUS, PROFIBUS, PROFINET, TCP/IP, ControlNet, PointIO, OPC, EtherCAT.

DCS

Siemens PCS7 Cemat V8.0, V8.1 and V8.2, Siemens PCS7 POLCID, FLS ECS/ACESYS V7.7 for Allen Bradley, ABB AC800M

Electrical and instrumentation

4-20mA and RTD Analog signals calibration and testing, Low voltage panels (MCC, ACC..)

Data Management

Process Historian 2014, Information Server, SQL Database, MS Access

CAD

AUTOCAD

TOOLS

MS Office

Others

Simocodes PRO, VMWare Workstation, Fiber Optic welding and connection, Expert Systems, Motionlinks, sick scanners and sensors

FUNCTIONAL KNOWLEDGE

PEOPLE MANAGEMENT

Work in multinationals environment, customer Service, team leading, client and team training, conflict management, management without Authority.

COMMISSIONING AND MAINTENANCE MANAGEMENT

Software and hardware diagnostics, failures troubleshooting, alarm management, Process Optimization, Production Report, technical assistance, System and CCR Rooms installation, Material inventory and update, PLC maintenance.

Project Management

Manage Automation projects from sale phase to handover to client.

Helpdesk

A Remote standby 24/24h and 7/7 days to provide solutions for urgent problems for different clients.

SPOKEN LANGUAGES

ENGLISH: Fluent

FRENCH: Fluent

DUTCH: Intermediate

ARABIC: Mother tongue

PROFESSIONAL EXPERIENCE

Swisslog: FROM 01/2020 up today

CONTROLS ENGINEER

Context of the project

Design, commission, and startup of automated solutions for warehouses in pharmaceutical, par-pharmaceutical, food, petrol, cars industries in Europe.

Helpdesk service & maintenance for operational warehouses.

Automation project management.

Achievements

- La Reserve des Saveurs(France) : Automation Project manager and solution developer then commissioning of 2 Autostore and conveyor system for a new Warehouse.
- REWE Magdeburg (Germany): commissioning of full automatic palletizing depalletizing warehouse
- Rexel Lyon (France): Program and commission of new warehouse that include Autostore and QuickMove conveyors.
- dana Spicer Brugge (Belgium): Program and installation of new laser sensor for a crane
- Johnson& Johnson warehouse in Courcelles (Belgium):
Program and commission new document insert machine and conveyor extension (2021)
Program and commission new B+ carton closer with conveyor extension (2021)
Commissioning and technical assistance of new conveyor system (2020)
- Grolsche warehouse (Netherlands): Program and commission of new frequency inverter for existing shuttle
- Volvo Gent (Belgium): Program, Commission, and technical assistance of 2 cranes in body buffer warehouse.
- Detailresult logistiek (Netherlands): Program and commission of Sew inverters inside a crane
- Arvato Benelux warehouse (Netherlands): Program and commission of sick scanners and update HMI

- Essity (Netherlands): Program and commission a pallet alignment system
- CoolBlue Tilburg (Netherlands): Program, design and commission conveyor infeed and outfeed system with an interface with Autostore
- Provide on call or onsite 7/7 24h helpdesk support and PLC maintenance for different clients (Boston Scientifics, dana Spicer, Milcobel, shell, Adient, Nolet distillery, Deufol, Colruyt, GXO Logistics, Spar...)

Tasks

- ✓ Signals testing.
- ✓ Software checking according to the functional analysis.
- ✓ Plant network installation and configuration (Profibus, Modbus, Optic Fiber, Ethernet, EtherCAT).
- ✓ functional testing.
- ✓ Safety matrix testing.
- ✓ Process monitoring, troubleshooting and software optimization.
- ✓ FAT and performance tests.
- ✓ Helpdesk and maintenance

Technical environment / methodologies

Beckhoff twincat 3, TIA portal V15 and V16, STEP7, MS Excel, Siemens S7-1500/S7-400/S7-300, Fail-safe CPU, twinsafe.

THYSSENKRUPP INDUSTRIAL SOLUTIONS: FROM 07/2019 TO 10/2019

AUTOMATION SUPERVISOR

Context of the project

Commissioning, startup and supervising automation subcontractors of SIGUSFA new 6000tpd Cement line project.

Achievements

Project is completed within time and budget from commissioning to handover to client.

Tasks

- ✓ Automation team leader.
- ✓ Signals testing.
- ✓ Software checking according to the functional analysis.
- ✓ Plant network installation and configuration (Profibus, Modbus, Optic Fiber, Ethernet).
- ✓ Sequences testing.
- ✓ Redundancy testing.
- ✓ Plant archiving.
- ✓ Plant reporting.
- ✓ Process monitoring, troubleshooting and software optimization.
- ✓ Filters, Air Analyzers and burners commissioning.

Technical environment / methodologies

Control system Siemens PCS7 version 8.2 with CEMAT version 8.2, Process Historian 2014 SP3, Information Server 2014 SP3, TIA portal V14, STEP7, MS Excel, Siemens S7-400, Fail-safe CPU, Mining.

METHANIA: FROM 03/2019 TO 06/2019

AUTOMATION PROJECT ENGINEER

Context of the project

Program and FAT test of JallaGAZ 04 installation that produce electricity from biogas.

Achievements

Project successfully programmed and tested within deadline and specification.

Tasks

- ✓ Program PLC S7-1200 and Design HMI panel PC IPC377E.
- ✓ Signals testing.
- ✓ Plant network configuration (Modbus, TCP/IP) and communication with gas analyzers and gas generator.
- ✓ Group testing.
- ✓ Process monitoring, troubleshooting and software optimization.
- ✓ FAT.

Technical environment / methodologies

TIA portal V14, IPC377E, S7-1200, biogas, generators.

FIVES FCB: FROM 07/2017 TO 07/2018

AUTOMATION ENGINEER / DESIGN - COMMISSIONING

Context of the project

Qatar National Cement Company, 5000 tons per day new cement line project's commissioning, performance tests and technical assistance then handover to the client in UMM BAB QATAR.

Achievements

Project successfully commissioned and handed over within time and budget.

Tasks

- ✓ Control command system installation Tasks.
- ✓ Signals testing.
- ✓ Software checking according to the functional analysis.
- ✓ Plant network configuration (Profibus, Modbus, Optic Fiber, TCP/IP).
- ✓ Sequences testing.
- ✓ Redundancy testing.
- ✓ Plant archiving.
- ✓ Plant reporting.
- ✓ Process monitoring, troubleshooting and software optimization.
- ✓ Special Machines commissioning.

Technical environment / methodologies

Control system Siemens PCS7 version 8.0 with CEMAT version 8.0, Process Historian 2014 SP3, Information Server 2014 SP3, TIA portal V14, STEP7, MS Excel, Anybus and LUFP7 Gateway, Siemens S7-400/S7-300, Mining.

ThyssenKrupp industrial solutions: FROM 12/2016 TO 07/2017

AUTOMATION SUPERVISOR

Context of the project

Group GIKA Setif Algeria: KEBIFA 6000 tons per day new cement line project's commissioning, performance tests and technical assistance then handover to the client.

Achievements

Project completed successfully within time and budget: plant handover to the client successfully done.

Tasks

- ✓ Control command system installation tasks.
- ✓ Signals testing.
- ✓ Software checking according to the functional analysis.
- ✓ Plant network configuration (Profibus, Modbus, Optic Fiber, TCP/IP).
- ✓ Sequences testing.
- ✓ Redundancy testing.
- ✓ Plant archiving.
- ✓ Simocodes PROV commissioning, fix and troubleshooting.
- ✓ Process monitoring, troubleshooting and software optimization.
- ✓ Package commissioning.
- ✓ PLOAB Expert System integration into POLCID System.
- ✓ ABB and WEG frequency converters programming.

Technical environment / methodologies

Control system Siemens PCS7 version 8.1 with POLCID, Simocodes ES, TIA portal V13, STEP7, MS Excel, Anybus and LUPF7 Gateway, Siemens S7-400/S7-300/S7-1200, WinCC.

IBITEK-GROUP: FROM 04/2013 TO 11/2016

AUTOMATION ENGINEER

Context of the project

Design, commission and startup of automated Mining and Minerals solutions.

Achievements

- LAFARGE Cement plant Sagamu (Nigeria): Program and design a cement Ball Mill1 then write the commissioning guide and train engineers.
Program, design, commissioning, and startup of a cement Ball Mill 2.
- LAFARGE Cement plant Ewekoro (Nigeria): Program, design commissioning and startup an alternative Fuel Station, then write technical and engineer guide documents.
- CIOK Tajerouin (Tunisia): Perform a FAT Test for automation System of Cement line then write à report to confirm if the system performance follows the agreed upon procurement specification.
Write the commissioning guide for process filter.
- Bizerte Cement plant (Tunisia): Program, design commissioning and startup a 4000tpd cement line then conduct a training session for the plant's engineers.
ABB Expert Optimizer integration into existing automation control and supervision solution.
Program, design commissioning and startup a Fuel Filtration Station.
- SOTACIB cement plant in Feriana (Tunisia): Program, design, commissioning, and startup a Petcock workshop.
- LAFARGE ALSAFWA (Saudi Arabia): Program and design a 6000tpd then perform a Fat test with ThyssenKrupp industrial Solutions.

- SOTACIB Kairouan (Tunisia): ABB ACS850 commissioning and integration into cement Mill Feeding program.

Tasks

- ✓ Control command system design and installation.
- ✓ Signals testing.
- ✓ Write functional analysis, IO lists, and System architecture design.
- ✓ Plant network configuration (Profibus, Modbus, Optic Fiber, TCP/IP).
- ✓ Sequences testing.
- ✓ Write scripts and design functional blocs.
- ✓ FAT and performance tests.
- ✓ Intercommunication between different PLCs and packages.
- ✓ Write engineer guides and technical reports.
- ✓ Process monitoring, troubleshooting and software Optimization.
- ✓ Package commissioning.
- ✓ ABB Frequency converters commissioning.
- ✓ Purchase automation materials.
- ✓ Low voltage distribution supervision.

Technical environment / methodologies

Allen Bradley PLCs, RSLOGIX5000, Siemens S7-400/S7-300/S7-1200, ABB AC800M, Factory Talk, WinCC, AutoCAD Control system Siemens PCS7 version 8.1 with POLCID/CEMAT, Simocodes ES, TIA portal V13, STEP7, MS Excel, Anybus and LUFP7 Gateway, ECS/ACESYSV7.7.