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# EXPERIENCE

**DUNHAM-BUSH USA 10/ 21 –– PRESENT**

(HVAC system global commercial heating, ventilation and air conditioning manufacturer)

## Lead Electrical Engineer (Engineer Department).

* Primary responsible is electrical starter and control panel design, switch board fabrication and overseeing manufacturing plant facilities.
* Responsible for the installation and technical support of DDC controller based hardware and software configurations, operation sequence.
* Responsible for the electrical design of new HVAC products (Air Cooler Chiller and Water Cooler Chiller).
* Designs, develops, and supervises all aspects of electrical control systems, equipment, and machinery.
* Responsible for the preparation of design documents (electrical data, drawing, operation manual, etc.) for new and current products platform.
* Responsible to review factory order in complying with applicable standards, customer requirements, sound engineering principles and practices.
* Responsible for the preparation of document required for the special projects including: drawings, purchased part specifications, procedures, bills of material, and other documents required for the manufacture of the products. Special projects refer to highly customized products, products with design for specific applications, etc.
* Hands-on on electrical panel testing and troubleshooting, procedures and safety requirements.
* Programming and configuration of the control system, operation sequence for chiller, airside and Package products
* Responsible for providing technical support to Sales/Marketing, Warranty Service, Quality Control & Production Departments, Associate Companies and Customer as needed.
* Assist Purchasing Department in sourcing components & raw materials, providing specifications and evaluating quality of vendors.

**CHAMPION CONTROL INC 12/ 17 –– 10/21**

(SYSTEM INTEGRATION, ENGINEERING DESIGN SERVICES AND MANUFACTURING OF CUSTOM CONTROL PANELS FOR WATER TREATMENT PLANT, SEWAGE TREATMENT PLANT AND WATERWAYS)

## Control Engineer (Engineer Department).

* Design and develop control systems for water systems and treatment plants.
* Design, document, implement and maintain essential SCADA, control systems and components for electrical systems and distribution networks.
* Develop electrical bill of materials
* Develop electrical design, schematics and drawings CAD of Lift Station, RTU, Control Panel for water a sewer.
* Analysis of electrical control design, project specifications, P&ID, equipment and I&C(Rosemount, Endress+Hauser, ABB, HACH, MSA, Allen Bradley, Eaton, Phoenix Contact, VEGA).
* Check quality of assemblers and technicians work and respond to inquiries during assembly.
* Commissioning, Test and startup of lift station and I&C.
* Testing, maintaining and modifying existing systems.
* Power up electrical systems and configure hardware per application specifications.
* PLC Programing, configurating industrial networks, communications protocols, computer software, test procedures and troubleshooting.

**GRUPO UNIDOS POR EL CANAL, S.A. 04/ 15 –– 09/ 16**

(Panama Canal, construction - Third set of locks for the Panama Canal).

## Electromechanical Installations Engineer (I & C Electromechanical Department).

Installation, testing, commissioning and SAT of:

* Process control system (Rockwell Automation solution for DCS, L71 ControlLogix, ControlNet, EthernetIP, Modbus TCP/IP, RSLogix5000), PCS Cabinets, Servers cabinet and Workstations GUPC/SELEX.
* Vessel Detection System (Industrial PC based, Visual +C, Modbus TCP/IP) GUPC/INDRA/LASE.
* Primary process measurement devices (Water Level transducer Rosemount TankRadar Pro, Water quality system, Wind speed and direction system, Air Quality Sensors, Hydrogen Monitors, Gas monitor system and Daylight sensor system) GUPC/INDRA.
* Arrow Signs Ocean and Lake (Rockwell Automation, L71 ControlLogix, ABB, RSLogix5000) GUPC/BAKKER Sliedrecht.
* Communication Networks (EtherNet/IP, ControlNet, Modbus TCP/IP, Fiber Optic) GUPC.
* Coordination of contractors SELEX and INDRA.
* Installation and construction subcontractor management.
* Coordination and liaison with the Customer appointed Site Coordinator.

## Tripoliven c.a. 08/13 –– 03/15

(International Manufacturing - Petro-Chemical Industrial).

## Maintenance Coordinator (Maintenance Department).

* Coordinate corrective and preventive plans execution, considering parameters of quality, economic efficiency, safety and preservation of environment, to guarantee processes operational reliability, optimal instrumental control and preservation of business assets.
* Major maintenance stops planning; coordinating activities/schedule execution.
* Responsible for the implementation of preventive & corrective program for electrical and instrumentation process; and process control systems maintenance.
* Responsible for the organization and operation of the Automation and Control Workshop Electricity and Instrumentation Unit.
* Identify automation opportunities and define plans to execute them. Strategy development for controllers control to guarantee the systems reliability.
* Projects analysis regarding technical matter, timing and costs, to assure vertical starts up.
* Manage the department budget.
* SAP PM module management.

## Tripoliven c.a. 03/06 –– 07/13

(International Manufacturing- Petro-Chemical Industrial).

## Maintenance Supervisor (Automation and Control Unit)

* Coordinate and supervise the activities of installation, adjustment, preventive and corrective maintenance of automation and control systems.
* Design, coordinate and supervise applications (HMI, Supervisor System, Servers of development) of Wonderware-Invensys, ArchestrA-Invensys, InTouch 9.5-Invensys, Eurotherm, Invensys and ABB Genesis, updating and ensuring its adaptability to the requirements of the processes.
* Design and implementation of architectures DCS, SCADA, Rockwell Automation Controllers (ControlLogix, CompactLogix).
* Design, configuration and installation of T940 PLC Controllers - Foxboro Invensys.
* Design, configuration and installation of PLC Mod30 and Modcell - ABB Kent Taylor.
* Design and implementation of communication networks industrial (ControlNet, DevineNet, EthernetIP, and RadioLinx).
* Design and implementation of industrial control protocols (Profibus, ModbusRTU, ICN, Fieldbus Foundation, HART, OPC server, DASserver).
* Programming modules 193-E1 PLUS Overload Relay Application - Rockwell Automation.
* Virtualization (VMware Workstation).
* CCTV System (Hikvision DVR, Avermedia DVR).
* Cameras Everfocus, Domos Everfocus, Domos Bosch, Cameras Sony
* Access control HID Card.
* Analysis and diagnosis of faults, inspection routes in plants.
* Responsible for projects in automation and industrial control.
* Developing and managing annual budget of the Automation and Control Unit.
* Management of the key performance indicator.
* Management System ISO-9001 auditor.

## Tripoliven c.a.. 01/03 –– 02/06

(International Manufacturing- Petro-Chemical Industrial).

## Systems and Communications Engineer (IT Department)

* Implementation, installation, adjustment and maintenance of the information and telecommunications systems, in order to guarantee an efficient, safe and reliable support to the operations.
* Design, develop and validate the systems, according to the requirements established, in order to ensure that such systems meet the needs of users.
* Installing and administering Microsoft Platform Servers (Domain Windows 2003 Server, Exchange Server 2003 and Server Mail Internet Service ISA Server 2004).
* Design and management of communication networks LAN, VLAN, Switch and Router Communication.
* Implementation of security policies and Windows Server 2003 applications.
* Programming Language in ORACLE 9i and PL / SQL, Management Tools SAP/R3, Visual Studio 6.0.

# EDUCATION

## - 07/2001 University Yacambú

**Electronic Engineering (Bachelor Degree)**

# SKILLS

* Installation, functional, testing, site acceptance test, process commissioning.
* Ability to apply project management and time management skills to consistently meet project timelines with aggressive schedules
* Excellent problem analysis and problem solving skills.
* Knowledge production manufacturing.

# TRAINING

Electromechanical solutions, Automation & Control, Process Control, Continuous Improvement, Planning and project control, Operation Auditing, Work Methods, Reengineering Process, The environmental systems leader auditor ISO-9001.

# MAIN PROJECTS

* Lead electrical and responsible for the electrical and control design of new HVAC products (Air Cooler Chiller and Water Cooler Chiller), Dunham-Bush USA, Homestead, Florida 2022.
* Electrical control design of PLC Control Panel and I&C for Solids Wastewater Broward County, Florida 2020.
* Electrical control design of PLC Control Panel and I&C for Reclaim Wastewater Broward County, Florida 2019
* Installation, commissioning and SAT of PCS in Third Set of Locks Project of the Panama Canal –2016. Process control system (Rockwell Automation solution for DCS, L71 ControlLogix, ControlNet, EthernetIP, Modbus TCP/IP, RSLogix5000), PCS Cabinets, Servers cabinet and Workstations .
* Migration and Automation of the Control System, Fertilizer Plant - Tripoliven, C.A. 11/2014. Supervision of instrumentation & control and DCS (Wonderware-Invensys, PLC ControlLogix, ControlNet, DevineNet Rockwell Automation).
* Migration and Automation of the Control System, Industrial Services Plant - Tripoliven, C.A. 11/2010. Supervision of instrumentation & control and DCS (Wonderware-Invensys, PLC ControlLogix, ControlNet, DevineNet Rockwell Automation).
* Migration Automation and Control System, Plant Urfos (Urea Phosphate)- Tripoliven, CA 01/2009. Supervision of instrumentation & control and DCS (Wonderware-Invensys, PLC ControlLogix, ControlNet, DevineNet Rockwell Automation).
* Migration Automation and Control System, Plant TPF (Sodium Tripolyphosphate)-Tripoliven, CA 2008. Supervision of instrumentation & control, and DCS (Wonderware-Invensys, PLC ControlLogix, ControlNet, DevineNet Rockwell Automation).
* Implementation PCS Plant AGROP (Agricultural Products Plant) - Tripoliven, CA 2007. Installation of Wonderware Supervisory System, INVENSYS

Programming Controllers MODCELL, MODBUS RTU, VIZZAP ABB Kent Taylor.

* Migration PCS , Plant P2O5 (Phosphoric Acid Plant) - Tripoliven, CA 2006.

Installation of Wonderware Supervisory System and PLC Foxboro T940 INVENSYS.

# PROFESSIONAL CERTIFICATIONS

* SOLIDWORK Electrical 2022. Homestead 2022.
* Certification UL 508A. Online [www.ul.com,](http://www.ul.com/) Fort Lauderdale 2020.
* Technology trend Rockwell Automation, Valencia 2015.
* Upgrading Auditing ISO 19011-2011, Valencia-2014.
* Management and Control Maintenance, Fundametal Valencia-2013.
* Fundamentals of PowerFlex Drives, Import-Import, 2011.
* Quality Management System ISO-9001: 2008, Bureau Veritas, 2010.
* RSLogix 5000 Controller CLX. Maintenance and troubleshooting. Rockwell Automation, 2007.
* RSLogix 5000 Controller CLX. Fundamentals of Logix 5000. Rockwell Automation, 2007.
* Wonderware System Platform. Invensys Wonderware, 2007.
* Foxboro-Invensys T940 Controllers, 2007.
* Industrial Application Server 2.0, Wonderware, Invensys, 2006.
* Industrial Communication Protocols, Invensys, 2006.
* Instrumentation and Control II, SETECING, 2006.
* Certification MS2273: Managing / Maintaining / Windows Server 2003. Conredsis, 2006.
* Certification MS2824: Implementing Microsoft Internet Security / ACCServer 2004, Lourtec, 2005.
* Oracle9i: Program with PL / SQL, Shell Tower, 2005.
* Networking Cisco CCNA, Module I, II, Fundacid, 2004.