



Moroni Alfredo Rendón Chávez

Mechatronic Engineer

CONTACT

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EDUCATION

BACHELOR OF ENGINEERING

MECHATRONICS ,

Technological University of
Torreón.

August 2014 Cedula: 9352515

TEC. SUP. UNI. IN MECHATRONICS FLEXIBLE

MANUFACTURING SYSTEMS AREA

Technological University of
Torreón. December 2012

Identity card: 8390001

ADDITIONAL INFORMATION

- Intermediate English 70%
- Driver's License
- Valid Passport and Foreign Visa
- Availability to change residence

ABOUT ME

I am responsible, helpful, hardworking, and honest. I know how to work in a team and with synergy, I like to continue learning and share my knowledge with people, I have an attitude of continuous improvement, I am good at working under pressure and my performance is focused on the

Achievement of goals.

PROFESSIONAL EXPERIENCE

COMPANY NAME: ECCSA AUTOMOTION, Monterrey, Nuevo Leon, Mexico.

POSITION: AUTOMATION PROJECT AND SERVICES ENGINEER

SECTOR: Automation and control.

RESPONSIBILITIES:

- Identify, design, plan, manage and execute projects (project leader) of automation systems based on PLC/HMI/SERVOS/DRIVES/NETWORKS.
- Programming and configuration of industrial networks (Profibus, Profinet, Ethernet/IP, etc.).
- Engineering service for diagnosis, repair and troubleshooting of electrical and control equipment.
- Sales support in specialized teams.

ACHIEVEMENTS:

- Automate a line of conveyor belts of boxes of more than 300 meters and integrate a Mosca brand wrapper. **Cardboard Boxes: Sultana, Santa Catarina, N.L., Mexico.**
- Automate the antioxidant spraying system saving more than \$150,000 per year. **John Deere Monterrey. Santa Catarina, N.L., Mexico.**
- Programming of safety points for 1000 Ton presses. **John Deere Saltillo.**
- Automate Haltanol Tank Filling **Berel Garcia N.L, Mexico**

PERIOD: October 2022 - Present

COMPANY NAME: MINERA Y METALÚRGICA BOLEO, Santa Rosalía, BCS., Mexico.

POSITION: Process Control Supervisor.

SECTOR: Mining and Metallurgy.

RESPONSIBILITIES:

- Make adjustments, calculations and make decisions to obtain quality product, in a safe and efficient way.
- Supervise the control of critical variables (flows, levels, temperature, pH, concentrations and other parameters) in the cadmium cementation process, solvent extraction, refining, production of cobalt metal and zinc sulfate monohydrate.

SKILLS

PLC PROGRAMMING	85%
CAD DESIGN	80%
PROGRAMMING AND OPERATION OF DELTA V	85%
OFFICE	85%
CONTROL OF INDUSTRIAL PROCESSES	90%
ROBOTIC	85%
SOLVENT EXTRACTION AND ELECTROWINING	80%
LEADERSHIP AND MANAGEMENT	90%
SALES QUOTATION	95%

COURSES

MQTT Communication Protocol for Micro800

Family Apodaca
NL, Mexico
January 2023

Solvent extraction

(Solvay), Cananea,
Sonora. November
2017

Academy for Business Creation

CDMX
December 2014

ACHIEVEMENTS:

- I started up equipment such as (pumps, filters, heat exchangers, agitators, etc.) Performing all the corresponding tests (Electrical, Mechanical and Instrumentation)
- Plant start-up for solvent extraction of Cobalt and Zinc
- Develop and schedule files for variable handling throughout the extraction area.

PERIOD: April 2015-October 2022

COMPANY NAME: Metalúrgica Met-Mex Peñoles S.A de C.V.

POSITION: Process Engineer.

SECTOR: Mining and Metallurgy.

RESPONSIBILITIES:

- Programming and configuration of plant in Delta V, automation of industrial processes for the recovery of lead and avoiding the emission of pollutants into the environment.
- Rockwell Brand Ladder PLC Programming
- Check instruments in poor condition or obsolete for replacement or upgrading.
- Operational Personnel Management
- Reading and Interpreting Piping and Instrumentation Diagrams

ACHIEVEMENTS:

- Automate the process of loading truckloads with ore using belts by integrating Emerson's Distributed Control (Delta V) into the Bermejillo plant.
- Migrate obsolete PLC hardware to a Distributed Control (Delta V) storage system for polluting particles called bag houses, used for filtration of high-lead air.

PERIOD: May 2014-September 2014

COMPANY NAME: Meccano de México S.A de C.V.

POSITION: CAD Design & Research Technician

SECTOR: Metal-Mechanics.

RESPONSIBILITIES:

- Design steel and aluminum molds using SolidWorks for the manufacture of mass produced homes.
- Interpreting Electrical Diagrams
- Fatigue Analysis in Metal Structures
- Hardness analysis in steels and aluminum
- Research and development of new technologies for welding moulds with robotic arm.
- Research and development of ceramic materials for the manufacture of thermal insulation in homes.

ACHIEVEMENTS:

- I launched a Motoman robotic arm with MotoSense machine vision.
- Develop improvements in the design of steel molds for the best use of raw material by relocating weld seams, saving operating costs and inputs.
- Develop a caloric analysis of a technology implemented in concrete to generate a thermal barrier inside a home.

PERIOD: August 2012- March 2013