

JOEL ESQUIVEL

Mechatronics Engineer

Mechatronics engineer with almost 8 years of expertise delivering world-class solutions for industrial automation, experienced in Project Management, PLC & HMI Programming, Process Control, Databases, Information Systems, Migration, Panel Building, System Architecture, SCADA and Distributed Control Systems (DCS), Constantly searching for personal growth and to take on great technology-driven challenges.

Work History

07-2021 - Project Manager

Current

ECN Automation, Aguascalientes

- Managed industrial automation projects in Mexico and the USA using diverse technologies in industries such as mining, food and beverage, automotive, energy, oil & gas, chemicals and manufacturing, following PMI best practices.
- Make sure to meet and exceed expectations of customer requirements regarding project scope, technical requirements, quality, reliability, schedule, and cost.
- Internal departments and contractor coordination.
- Review of project supplies, purchase release, and delivery follow-up.
- Solve technical and nontechnical problems throughout life of project.
- Reviewed project's technical requirements like system architecture or cost/performance evaluation and make sure system design is according to industry standards and worked as intended.
- Demonstrated creativity and resourcefulness through development of an innovative solution to save more than 80% of PLC programming time in PlantPAX applications.

04-2018 - Projects Coordinator Bajio Region

06-2021

ECN Automation, Aguascalientes

- Developed project plan and technical management of automation team made up of 5 engineers to deliver multiple projects in Bajio Region (Aguascalientes, Guanajuato, San Luis Potosí, and Zacatecas).
- Make hardware and software specifications and control design.
- Identify needs, resources, training, and technological opportunities available for team to improve execution of process control system projects.
- Keep clients informed and updated on progress and requirements gathering to provide seamless experience.
- Design and programming of process control system using mainly Rockwell platform.
- PLC and HMI development, commissioning, and start-up of industrial automation projects, IT Systems, SCADA control systems, PlantPAX, DCS (Distributed Control Systems), MCC (Motor Control Center), and instrumentation.
- Self-motivated, with strong sense of personal responsibility.

08-2016 - Automation Projects Leader

04-2018

ECN Automation, Aguascalientes

- Leadership of multidisciplinary team conformed by more than 5 engineers.
- Troubleshooting programming errors and resolve issues in sites.
- Performed commissioning of process control system and equipment for plant process.
- Proved successful working within tight deadlines and fast-paced environment.
- Development of PLC and HMI programming with PlantPAX.
- Industrial networking configuration.
- Preparation of documentation, schematics red lines.
- Commissioning of MCC (Motor Control Center with VFD, Soft Starters, DOL starters) and troubleshooting.
- Review electrical control panel drawings and P&IDs.

Contact

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WWW

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Skills

Effective problem solving



Advanced

Active Listening



Upper intermediate

Effective decision making



Upper intermediate

Ability to prioritize



Upper intermediate

Quick learning



Upper intermediate

Leadership Skills



Advanced

System Architecture



Advanced

Test Equipment



Advanced

Computer Technology



Advanced

Sales Presentations



Intermediate

04-2015 – Project Engineer

08-2016

ECN Automation, Aguascalientes

- SCADA development FactoryTalk View WinCC 7,
- Programming of PLCs with RSLogix 500, 5000, Studio5000, Step 7, TIA Portal.
- Industrial networking configuration (Profibus DP, PROFINET, CAN Bus, troubleshooting).
- Modification of existing PLCs and HMI programs
- Performed instrumentation commissioning (installations, configuration, communication, and start-up, troubleshooting).
- Installation of control panels.
- Electrical drawings with AutoCAD.
- Control wiring.
- IO Check out.
- Plant equipment Start-up.
- Documentation of projects, and maintain accurate records.

Education

07-2011 - Mechatronics Engineer: Industrial Automation

04-2015

Universidad Tecnológica Del Norte De Aguascalientes - Aguascalientes, Mexico

Accomplishments

- **Project "Automation Modernization Program" – 1M USD** Aug 2021 - April 2022
Role: Project Manager – Client: Lhoist -Arizona, USA.
- **Project "Refinery tank remote measurement system" – 830K USD** May 2020 - October 2020
Role: Project Coordinator – Client: PEMEX Refinery - Hidalgo, Mexico.
- **Project "Plant Instrumentation Revamping" – 2.3M USD** Nov 2018 – Mar 2020
Role: Project Coordinator – Client: Grupo Mexico - Zacatecas, Mexico.
- **Project "Revamping Peña Colorada" – 3.5M USD** Mar 2016 - Aug 2017
Role: Programming Team Leader – Client: Consorcio Minero Benito Juarez - Colima, Mexico.
- **Project "Tailings Disposal" – 200K USD** Jul 2015 – Feb 2016
Role: Project Leader Client: Fortuna Silver Mines - Oaxaca, Mexico.

Relevant Activities

- PlantPax System Design - Rockwell Automation on Cleveland, Ohio, USA Jan 2016
- English as Second Language – Alamo Colleges, San Antonio, Texas, USA Dec 2014
- Robotics Academy (Vex Robotics) - Programmer August 2012 – April 2013
World championship – Anaheim, California, USA. April 2013
National tournament – Texcoco, México March 2013
Regional tournament – San Luis Potosí Feb. 2013

Knowledge

Operation Technologies:

- **Programming:** LD (Ladder), FBD (Function Block Diagram), SFC (Sequential Function Chart), Structured Text,
- **Industrial Network:** Ethernet IP, Profinet, Profibus DP, Modbus TCP/IP, RTU, Can Bus, CC-Link.
- **Motor Controls AC:** PowerFlex7000 synchronous transfer, Power Flex 755, E300, SCM Flex Soft Starter, Simocode Pro V, Sirius 3RW44 Soft Starter, Sinamics G120 VFD, SVX9000 Eaton.
- **PLCs:** Siemens, S7-300, S7-200, S7-1200, S7-1500, ControlLogix, CompactLogix, MicroLogix, Mitsubishi Serie Q.
- P&ID Diagrams, Instrumentation, PID Tunning.
- Electrical diagrams and troubleshooting.

Information Technologies:

- **Operating Systems:** Microsoft Windows, Windows Server / Linux Ubuntu
- **Data Base:** MySQL, Postgres.
- **IDE:** Microsoft Visual Studio, Visual Studio Code
- **Frontend:** HTML5, JavaScript, jQuery, CSS, Framework (Bootstrap)
- **Backend:** PHP
- **Version control:** GitHub.
- **Network management:** Layer 2 switch configuration (VLAN, Trunk, NAT)
- **Programming Intermediate – Advanced Level:** Language C, C#, SQL, Python, .NET.
- **Virtualized environment:** Hypervisor vSphere ESXI, Virtual Machines.

Technical Sales



Application Assistance



Customer Presentations



Languages

English



Software

Studio5000, Rslogix5000, Rslogix500, RSLogix 5



FactoryTalk View



Historian



VantagePoint



CCW



AutoCAD



IAB (Integrated Architecture Builder)



TIA Portal, STEP 7



SolidWorks



Microsoft Project



Microsoft Office, Excel VBA.

