

Wilson Rodriguez

✉ wilson.rodriguezpedraza@gmail.com

☎ (506) 898 2839

🏠 500 Douglas Ave, Saint John - NB

Handy - Committed with Results +12 Years of Professional Experience - Electrical Design for Residential/Industry, Instrumentation & Control, Automation using PLCs

Professional Summary

Newly graduate from Electrical Engineering Technology with a passion for designing and implementing innovative electrical systems. Skilled in project management, technical inspections, and maintenance planning. Adept at collaborating with multidisciplinary teams to deliver high-quality solutions. Eager to apply theoretical knowledge and practical skills to contribute to the field of electrical engineering.

Education

■ Electrical Engineering

April 2024. Diploma of College Studies, Electrical Engineering Technology, New Brunswick Community College (NBCC). Project: Design of a Substation and Distribution Lines for an Oil Production Field. Includes Electrical Protection Systems and Control

■ Oil and Gas Processes

2014. Postgraduate Diploma, Hydrocarbon Production Specialization, Universidad Industrial de Santander (UIS), Colombia. Project: Bases and criteria for the design and selection of electrostatic treaters for Emulsion Separation.

■ Electronic Engineering

2009. Bachelor of Engineering - Electronics Engineering, Universidad Industrial de Santander (UIS), Colombia. Project: Design and construction of a data acquisition card for a three-phase low voltage digital meter.

Work Experience

■ Operation & Maintenance Auditor at Serpegua

Guatemala City, Guatemala | 05/2019 - 12/2019

- Planned and scheduled technical inspection activities for processes and automation, ensuring adherence to maintenance schedules and regulatory standards.
- Conducted technical inspections related to the integrity of main static equipment and cathodic protection systems, overseeing maintenance plans and execution to ensure optimal performance and compliance.
- Identified non-conformities and developed improvement plans, implementing changes to enhance equipment integrity and operational efficiency.

■ Instrumentation Engineer at Geoandina

Bogota, Colombia | 01/2016 - 02/2018

- Installed and commissioned instruments and controls, configuring communication with SCADA systems and programming interfaces to optimize operational efficiency.
- Supervised and coordinated activities of technicians responsible for maintaining electrical and monitoring systems, ensuring adherence to maintenance schedules and safety protocols.
- Designed solar panel systems to power remote instrumentation and data loggers, providing sustainable and reliable power solutions, and conducted training for client personnel to ensure proper operation and maintenance.

■ Instruments Maintenance Supervisor at Confipetrol

Villavicencio, Colombia | 10/2013 - 10/2014

- Supervised, coordinated, and scheduled activities for electromechanical and automation maintenance technicians at oil production stations, wells, and pipelines, ensuring optimal performance and adherence to safety protocols.
- Installed multiple new process instruments and transmitters, overseeing their integration with SCADA systems to enhance monitoring and control capabilities, improving operational efficiency.
- Tuned and enhanced water treatment processes, implementing adjustments to improve efficiency and quality, demonstrating expertise in process optimization and instrumentation calibration.

■ Pipelines Integrity Engineer at Tecnicontrol

Villavicencio, Colombia | 07/2013 - 10/2013

- Supervised, coordinated, and scheduled activities of technicians conducting inspections of pipe coatings and electrical maintenance of cathodic protection systems, ensuring compliance with standards and specifications.
- Personally performed inspections and maintenance tasks related to pipe coatings and cathodic protection systems, demonstrating hands-on expertise and attention to detail.
- Conducted buried line localization and utilized Trimble devices for GPS fault localization, integrating data into ArcGIS for accurate mapping and analysis.

■ Instrumentation & Control Engineer at CTP

Bucaramanga, Colombia | 03/2012 - 06/2013

- Developed conceptual and basic engineering plans, including P&IDs and process tuning standards, contributing to the optimization of oil transportation systems.
- Collaborated with multidisciplinary teams to optimize oil transportation processes, leveraging expertise in instrumentation and communication device selection.
- Conducted operational risk analyses, assessing potential hazards and implementing mitigation strategies to ensure project success and safety compliance.

■ Plant Engineer and Monitoring Projects Manager at Tecnologia Total

Bogota, Colombia | 04/2010 - 12/2011

- Managed the production line of electrical rectifiers for cathodic protection systems (CPS), ensuring efficient operations and adherence to quality standards.
- Oversaw all projects related to satellite monitoring of CPS, coordinating with stakeholders to ensure successful implementation and functionality.
- Performed installations of CPS in various Oil and Gas transportation systems, demonstrating expertise in installation techniques and system integration. Additionally, designed an analog alarm system for rectifiers located inside stations, showcasing innovative problem-solving skills. Presented as a speaker at the NACE Corrosion Show in Bogota in 2011, sharing expertise and insights with industry professionals.

■ Sales Assistant at Nordia

Saint John, NB | 07/2023 - Currently here

Manage incoming calls from Bell door-to-door vendors in Manitoba, processing requests and resolving issues. When the days are slow, I am developing and maintaining a LibreOffice workbook that guides agents through an optimized workflow, enhancing the quality of their calls and reducing contact handling time.

Skills

■ Technical

MS Excel, AutoCAD, RS Logix 5000 PLC programming, P&ID and Electrical and Electronic Circuit Design, Different types of SCADA Systems, MS Project, C++, Basic, Handling of electronic instrumentation. Embedded systems and microcontrollers. Control systems design. Power electronics knowledge. Application of electrical protections. Industrial and residential electrical installations. Use of electrical design software. Electrical regulations and standards. Knowledge of power generation, transmission, and distribution. Analysis of electrical networks. Cathodic protection systems. Knowledge of artificial lifting production, Oil & Gas Surface Processes, Inline Measurement Systems for Fluids, Oil-Gas-Water Treatment Systems.

■ Soft skills

Leadership, supervision, coordination, planning, teamwork, teaching, conducting technical inspections, optimization and commissioning. Design and innovation. Risk analysis and safety work. Vast experience in projects control. Consistency and perseverance. Quick learning.

I belong to:

National Professional Council of Electrical, Electronic Engineering and Related Professions (Colombia)

All my references are available upon request

