ALBERTO PEREIRA

Electronics Engineer

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SUMMARY

Bilingual (SP-ENG) Electronics Engineer, Project Manager (PMI standard) and scrum master (SMPC) with extensive experience in industrial automation, networking, and control systems. Proven ability to lead complex projects, implement automation solutions, and manage teams in high-stakes environments. Expertise in industrial network architecture, automation system migration, and process optimization across various industries, including mining, oil & gas, and manufacturing. Fast learner, adaptable, team player inquisitive and open to other perspectives

SKILLS

- Industrial Automation & Control Systems
- Automation Migration and upgrades
- Rockwell PLCs & SCADA programming
- Industrial Network Architecture & Security
- Problem-Solving & Impediment Removal
- iFix, Wonderware and FactoryTalk view proficiency
- Change management
- Stakeholder Engagement
- Project Management (PMI, Scrum)
- Systems Integration
- Technical Understanding (Ladder, ST, C, C#, JavaScript, Assembler, Python, VB)
- Microservices & APIs

PROFESSIONAL EXPERIENCE

10/2023 – present
MASTER ANALYST OF TECHNOLOGICAL SERVICES IMPROVEMENT - EFECTY

- Lead three cross-functional teams to design and develop software solutions for in-house Point of Service software, E-Wallet apps for iOS and Android, and microservices for the apps' backend.
- Ensure timely execution through Agile methodologies such as Scrum to enhance the technological operation of over 10.000 branches nationwide with over 50M transactions and the digital product portfolio (E-Wallet, payment gateway, website) with over 10M transactions monthly with an uptime and availability KPI accomplishment of 99.99% monthly
- Lead the integration of identity profile service provider (Transunion) and managed user accounts through API services.

01/2021 – 10/2023
ACCOUNT LEADER– OMNICON

- Managed the branch's program for large-scale industrial automation (Rockwell) projects for key clients adding 2M dollars in different industries, including Cerrejón (Coal mine), Ecopetrol (Oil & gas), and Nestlé (Food), using Scrum, PMI, and Kanban methodologies.

- Led the design and configuration of an industrial network for a coal mine plant, improving reliability and access between 40 devices (PLC's, VFD's, Remote IO's, FlexIO's, redundant servers)
- Directed the development of hive-style control systems for conveyor belts, achieving an 8% annual improvement in product handling processes.

12/2015 – 12/2020
PROJECTS ENGINEER – OMNICON

- Delivered 4 gas compressing station control system used in the national distribution system of around 100 I/O points.
- Managed migration from legacy systems to modern automation technologies, driving digital transformation (PLC5, MicroLogix, SLCs to ControlLogix or CompactLogix).
- Oversaw the upgrade of lighting systems in high-risk chemical production areas, ensuring compliance with industrial safety standards.
- Led the automation maintenance and upgrade program at a large coal mine, overseeing over 40 networked Rockwell PLCs and utilizing iFix as the HMI platform.

02/2012 – 11/2015
PROJECTS ENGINEER – DST

- Developed automation systems for mining equipment, reducing maintenance costs and improving operational efficiency. Hardware design and firmware programming
- Led the design and implementation of a fuel dispatch control system, optimizing fuel usage and reducing theft in a coal mining operation.
- Provided 24/7 support for critical control systems, ensuring seamless operation and troubleshooting across multiple industrial sites.

EDUCATION

2022
PMP Certification studies, Diplomata

2022
Scrum Master Certification, Universik

2014
Engineering Project Manager (Advanced Studies), Universidad del Norte, Colombia

2012
Electronics Engineer, Universidad del Norte, Colombia

Languages

- English: Proficient
- Portuguese: Conversational
- Spanish: Fluent