Rogelio Perea – Electrical / IT Engineer

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My main goal has always been to make disciplined use of both technology and methods and procedures to improve enterprise operations at all levels, with the aim on making them cost effective while providing a high quality end product and/or service.

Specialties

Telecommunications, Telemetry Systems, Plant Layouts, CAD, Computer Technology (Software, Hardware and Networking: KVMs, Unix, MS Windows, Mac OS, Motorola Processors), Shop Tools, Electronics Lab Equipment (Oscilloscope, Spectrum Analyzer, Vectorscope, Time Domain Reflectometer, DVM, Frequency and Audio Generators and other Certification Instruments), Electronics troubleshooting and repair to component level, FCC Regulations, Customer Support

Experience

Broadcast Regional Engineer
iHeartmedia Radio - Tucson

November 2018 – February 2021

Chief Engineer - Internal & External Customer Support (Technical Services) - Documents Management (Creation and Maintenance of CAD Drawings/Schematics, Procedures and Tutorials), HVAC (intermediate), Editorial Staff technical training. IT Support (Windows 10, Local Area Networks, Small Business Office, Hardware upgrades/repair). Continuous Improvement efforts.

Industrial & Broadcast Engineering Consultant
Self Employed

February 2017 – Present

Continuous Improvement Project Management, Documentation Control Assistance: AutoCAD drawings creation and maintenance (Plant Layouts, Electronics Schematics), Visio Manufacturing Visual Guides (Production Floor, QA, Supply Chain), Training Materials (Industrial and Broadcast staff and production personnel), IT Support (Windows 10, Local Area Networks, Small Business Office, Hardware upgrades/repair).

Tool Repair Technician
The Home Depot

June 2018 – August 2018

Diagnostics and repair to component level of electro-mechanical devices both rented by the Home Depot and those brought in by third party private owners. Work with tools and parts suppliers for Service Information and Replacement Parts procurement. Maintenance of the in-house inventory management system (service tickets) for rentals and repairs. Spearheading the effort to establish Continuous Improvement practices across the TRC (Tool Rental Centers).

Broadcast Support Engineer
Bloomberg News
Financial News/Media Services industry

January 2004 – January 2017 (13 years)

Bloomberg TV Support Engineer and WBBR 1130 Assistant Chief Engineer - Internal & External Technical Services and Support (Affiliates, Remote Bureaus, Local staff) - Documents Management (Creation and Maintenance of CAD blueprints/schematics, Procedures and Tutorials). HVAC (intermediate), Radio and TV News Production Systems: Intercom, Graphics, Routing, Scheduling, ENPS, Production Systems, Telemetry. Telco liaison (Verizon, MCI, L3). Editorial Staff Technical Training.

Languages

- English
- Spanish

Education

Instituto Tecnológico y de Estudios Superiores de Monterrey
Diplomat, Lean Manufacturing
2001 – 2002

Continuous improvement studies and practical implementations in diverse environments

Instituto Tecnológico de Nogales
BS, Industrial Engineering
1984 – 1989

Majored in Manufacturing Production Systems

Instituto Tecnológico de Nogales
AS, General Electronics & Computer Science
1981 – 1984

Electronics R&D and Computer Systems Science - Troubleshooting, Computer and Microprocessor/Microcontroller Programming

Noteworthy Achievements

Installed new AM and FM antenna systems for AM/FM combo in Mexico. Station had been suffering from coverage problems for years – retrofit included new transmitting equipment, antenna system (tuning house, tower and ground plane where needed) and the start of the first Stereo AM (C-Quam) operation in Northwest Mexico early 90's.

Implemented Revision Control (Visual Source Safe) on Drawings maintenance for NY location, that included standardization of formats for all support documentation. Prior to that there was no discipline in formats used and no revision control with the ensuing troubleshooting reverse engineering problems that carries with it.

Deployed first phase of KVM system upgrade to move from Analog to Digital infrastructure – from the original Raritan Paragon to IHSE Draco. Support included Engineering and Live Production stations.

Upgraded telemetry system for transmitter site location in NY from a vintage Moseley MRC-II system to a Burk ARC Plus (Autopilot) integrating the new platform to the output network controller switching system (AM Directional Antenna Array).

Designed and deployed a silent "Cough Drop" switch for the TV studios. Prior off-the-shelf system proved noisy due to the mechanical switch. Same concept was applied to the radio station booths "Cart Control" boxes – originally supplied by Logitek, the switches were of mechanical nature and prone to misfires. New design was capacitive switch based.

Other

Relocated to Arizona February 2017

US Citizen

Hobbies: Musician, Vintage Computing