



Jameson Rodriguez

Field Service Engineer, Emulation and Prototyping

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SUMMARY

Field Service Engineer with seven years supporting advanced electronic hardware across customer sites, data centers, and laboratory environments. Installs, configures, validates, upgrades, relocates, and sustains FPGA based emulation and prototyping systems through production readiness and customer handoff. Troubleshoots boards, chassis, firmware, networking, **power distribution**, cabling, peripherals, and **system integration** with oscilloscopes, logic analyzers, and multimeters. Performs **root cause analysis**, develops repeatable validation procedures, documents failure modes, and drives corrective actions through closure. Partners with **Hardware Engineering**, Manufacturing, and R&D teams to convert field findings into reliability improvements. Leads escalations, mentors field engineers, communicates clearly with customers, and manages independent travel assignments while protecting verification schedules and deployment quality.

EXPERIENCE

Lead Field Service Engineer

VectorPeak Verification Services 📅 April 2023 to Present 📍 Denver, Colorado

Leads onsite deployment, validation, escalation, and sustainment for FPGA based prototyping systems serving semiconductor verification teams. Coordinates customer labs, data centers, engineering specialists, and internal stakeholders while protecting deployment readiness, system reliability, and verification schedules.

- Led FPGA **prototyping** deployments across customer labs, coordinating readiness checks before verification handoff.
- Traced chassis faults through power, cabling, firmware, networking, and signal behavior using diagnostic instruments.
- Created **validation** procedures for rack integration, power sequencing, firmware baselines, connectivity, and system acceptance.
- Directed customer upgrades and **relocations** during maintenance windows, protecting active verification schedules through recovery checkpoints.
- Converted recurring failures into reports for hardware engineering, manufacturing, and **R&D corrective actions**.
- Mentored field engineers on troubleshooting discipline, escalation quality, and **customer communication** during international assignments.

Field Service Engineer

SiliconBridge Systems 📅 January 2021 to March 2023 📍 Austin, Texas

Supported rack scale emulation and prototyping equipment at semiconductor customer sites through installation, validation, upgrades, critical escalations, and technical closure. Connected field investigations with manufacturing and product engineering teams to improve troubleshooting speed and redeployment confidence.

- Installed rack scale **emulation** equipment, confirming **hardware**, networking, firmware, and peripheral readiness onsite.
- Isolated integration faults across **boards**, **chassis** interconnects, power distribution, switches, and configuration files.
- Supported extended customer engagements, communicating recovery plans and technical status during **critical escalations**.
- Built troubleshooting records for boot, link, thermal, and connectivity issues across field cases.
- Reproduced customer failures in laboratories with **manufacturing** and product engineers, verifying corrective actions.
- Managed travel intensive installation windows while maintaining case notes and ownership through technical closure.

Hardware Validation Engineer

FrontRange Electronic Labs 📅 June 2020 to December 2020 📍 Boulder, Colorado

STRENGTHS

- 🔍 **Diagnostic Reasoning**
When faults crossed hardware and firmware boundaries, traced evidence with instruments until root causes became clear.
- 💬 **Customer Escalations**
During urgent cutovers, translated technical findings into calm recovery plans that earned customer confidence.
- ✅ **Validation Discipline**
Built repeatable checks for power, firmware, networking, and integration, making handoffs smoother for verification teams.
- 👥 **Cross Functional Feedback**
Recurring field failures became useful engineering evidence, helping manufacturing and R&D focus corrective work.
- 🕒 **Independent Ownership**
Travel assignments often required fast decisions onsite, with organized notes and follow through carrying issues toward closure.

SKILLS

Field Service Engineering

Emulation Platforms

FPGA Prototyping

Hardware Installation

Hardware Validation

System Integration

Root Cause Analysis

Firmware Troubleshooting

[Networking](#) [Rack Infrastructure](#)

[Power Distribution](#) [Cabling](#)

[Oscilloscopes](#) [Logic Analyzers](#)

[Multimeters](#)

LANGUAGES

English Native

Spanish Intermediate

MY CAREER

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MONTHS

Validated electronic assemblies and rack integrated systems before shipment, combining bench diagnostics, firmware checks, regression testing, and configuration reviews. Documented evidence for design engineers and strengthened readiness across laboratory and field handoffs.

- Validated electronic assemblies through board, firmware, power, **cabling**, **networking**, and integration checks.
- Developed bench procedures using **oscilloscopes**, multimeters, and **logic analyzers** for failure characterization.
- Reproduced manufacturing defects in controlled laboratory setups, documenting test conditions and diagnostic evidence.
- Executed regression validation after board revisions and **firmware** updates, confirming corrective results.
- Recorded **failure modes**, test results, and corrective actions in reusable engineering documentation.
- Supported configuration reviews for customer systems, strengthening hardware quality before deployment.

Electronics Integration Technician

HighMesa Computing 📅 July 2019 to May 2020 📍 Fort Collins, Colorado

Integrated boards, power supplies, network components, cabling, firmware, and configuration packages into laboratory rack systems. Performed structured bring up checks, maintained diagnostic resources, and supplied practical feedback for stronger integration procedures.

- Integrated boards, power supplies, network components, and cabling into laboratory rack systems.
- Verified assemblies against configuration records using **multimeters** and oscilloscopes for wiring issues.
- Loaded approved firmware and configuration packages, documenting versions and test outcomes for traceability.
- Performed structured bring up checks on repaired and newly assembled systems.
- Escalated abnormal results with concise evidence for engineering review and corrective action.
- Maintained diagnostic equipment, cables, spares, and laboratory **hardware** for scheduled integration work.

PROJECTS

Global Emulation Deployment Readiness 📅 2025

Coordinated a repeatable readiness model for complex customer deployments, linking rack checks, power sequencing, firmware baselines, network validation, peripheral testing, documentation, and acceptance evidence before handoff.

FPGA Platform Failure Reproduction 📅 2022

Recreated field reported boot, link, thermal, and integration failures in a controlled laboratory setting, giving engineering teams clear evidence for corrective action and redeployment decisions.

LEADERSHIP & AWARDS

- Technical Mentor, Field Engineering Knowledge Forum, 2024 to Present
- Recognition for sustained customer escalation ownership and clear technical closure documentation
- Selected mentor for practical troubleshooting guidance across field engineering assignments

EDUCATION

Bachelor's Degree in Electrical Engineering

Colorado State University 🎓 GPA: 0 📅 2019 📍 Fort Collins, Colorado

Coursework: Circuit analysis, digital systems, electronics, computer architecture, embedded systems

CERTIFICATIONS

- IPC J STD 001 Certified IPC Specialist 📅 2021
- CompTIA Network+ 📅 2022

TECHNICAL SKILLS

- **Diagnostic Instruments:** Oscilloscopes, Logic Analyzers, Multimeters
- **Emulation Platforms:** FPGA Prototyping, Hardware Assisted Verification, Emulation Systems
- **Hardware Integration:** Boards, Chassis, Peripherals
- **Firmware Systems:** Firmware Baselines, Configuration Packages, Firmware Updates
- **Networking Equipment:** Network Switches, Connectivity Testing, Network Configuration
- **Rack Infrastructure:** Rack Systems, Cabling, Power Distribution
- **Validation Methods:** System Validation, Regression Testing, Acceptance Testing
- **Root Cause Analysis:** Failure Mode Analysis, Corrective Actions, Fault Isolation
- **Deployment Operations:** Installations, Upgrades, Relocations
- **Technical Documentation:** Case Notes, Test Results, Troubleshooting Records
- **Reliability Engineering:** Hardware Quality, System Reliability, Production Readiness
- **Engineering Collaboration:** Hardware Engineering, Manufacturing, R&D

PROFESSIONAL AFFILIATIONS

- Field Engineering Knowledge Forum, Technical Mentor
- Professional community focused on hardware validation, customer deployment, and troubleshooting exchange

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST