

Jacob Pittman

Senior Plant Controls Engineer, Global Design Leadership

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SUMMARY

Senior **Plant Controls** Engineer with 12 years delivering **industrial automation** and plant controls across manufacturing and process environments. Leads **controls architecture**, requirements, interfaces, design reviews, implementation, testing, commissioning, troubleshooting, documentation, and technical handoff across multi site programs. Current work connects distributed engineering contributors with electrical, mechanical, process, software, commissioning, operations, and project stakeholders. Creates consistent engineering practices, reusable templates, clear design decisions, and reliable testing evidence. Mentors controls engineers and communicates technical risks, tradeoffs, and maintainability concerns in practical language. Hands on experience stays grounded in plant operation, signal paths, sequences, field behavior, integration, and production needs. Ready to help Ironwood Process Systems deliver dependable global **controls design** from concept through implementation, commissioning, and operational handoff.

EXPERIENCE

Lead Plant Controls Engineer

Summit Forge Automation 📅 March 2022 - Present 📍 Fort Wayne, IN

Leads multi site plant controls design across industrial automation programs, setting architecture, reviewing engineering packages, coordinating interfaces, mentoring engineers, and guiding dependable implementation through commissioning and handoff.

- Led multi site controls architecture reviews, aligning plant **interfaces** with dependable implementation decisions.
- Defined **control requirements** and design deliverables, giving distributed engineers a consistent working baseline.
- Coordinated electrical, mechanical, process, software, and commissioning stakeholders through complex interface decisions.
- Resolved integration issues through structured **troubleshooting**, documented decisions, and practical follow through.
- Reviewed testing evidence and **commissioning** results, improving maintainability before operational handoff.
- Mentored controls engineers through **design reviews**, technical risks, tradeoffs, and **reusable practices**.

Senior Controls Engineer

Midland Process Engineering 📅 January 2019 - February 2022 📍 Indianapolis, IN

Directed complex manufacturing controls assignments from requirements through testing, commissioning, troubleshooting, documentation, and handoff while coordinating multidisciplinary stakeholders and strengthening repeatable engineering practices.

- Directed manufacturing controls assignments, connecting project scope with plant operating requirements.
- Built control documentation and interface records, helping teams review decisions with shared context.
- Checked assumptions, calculations, and system behavior before advancing packages into formal review.
- Investigated **commissioning** issues with operations and software partners, restoring dependable plant behavior.
- Prepared concise technical updates that connected design risks with practical project decisions.
- Organized tests, templates, and handoff records, making later project reuse more consistent.

Controls Engineer II

Great Lakes Industrial Systems 📅 June 2016 - December 2018 📍 Toledo, OH

Delivered production line controls engineering for industrial systems, supporting **architecture**, documentation, design review, testing, commissioning, troubleshooting, and coordination with plant and **project stakeholders**.

- Delivered production line controls designs, linking field signals with reliable operating sequences.
- Supported **design reviews** with electrical and mechanical partners, resolving interface questions before implementation.
- Documented requirements, assumptions, and test results, giving **commissioning** teams clear evidence for handoff.
- Troubleshot field behavior during startup, translating operator feedback into practical controls corrections.
- Coordinated software and operations input, improving issue resolution across active production environments.
- Captured reusable templates and records, helping later assignments begin with clearer engineering practices.

Controls Engineer

Cedar Ridge Automation 📅 September 2014 - May 2016 📍 South Bend, IN

Executed supervised industrial controls assignments across manufacturing applications, building practical foundations in requirements, interfaces, documentation, testing, troubleshooting, and commissioning support.

- Executed supervised controls assignments, translating approved requirements into documented engineering outputs.
- Supported signal and interface checks with senior engineers, improving readiness before field testing.
- Recorded system behavior and assumptions, giving **design reviews** a clearer technical foundation.
- Assisted **troubleshooting** during **commissioning**, connecting field observations with corrective controls actions.
- Prepared concise handoff notes, helping operations receive practical **information** for startup support.

- Organized test records and templates, making recurring engineering tasks easier for project teams.

PROJECTS

Global Plant Controls Standards 📅 2025

Created a reusable controls design framework for distributed engineering teams, covering requirements, interfaces, review evidence, testing records, commissioning readiness, and operational handoff practices.

Manufacturing Commissioning Readiness 📅 2023

Structured pre startup review materials for manufacturing controls, connecting design documentation, stakeholder decisions, troubleshooting records, and field validation before production release.

LEADERSHIP & AWARDS

- Recognized by project leadership for dependable controls design direction across multi site industrial programs.
- Selected by peers as a technical resource for commissioning issues, design reviews, and maintainability decisions.
- Entrusted with mentoring controls engineers and sharing reusable engineering practices across distributed teams.

EDUCATION

Bachelor of Science in Electrical Engineering

Purdue University Fort Wayne 🎓 GPA: 3.5 📅 2014 📍 Fort Wayne, IN

Coursework: Controls systems, electrical circuits, industrial automation, systems engineering

CERTIFICATIONS

- ISA Certified Automation Professional 📅 2024
- Project Management Professional 📅 2023

TECHNICAL SKILLS

- Controls Engineering:** Plant controls, industrial automation, control systems
- Controls Architecture:** Controls architecture, control requirements, design interfaces
- Engineering Documentation:** Design documentation, requirements records, handoff records
- Design Review Methods:** Design reviews, technical reviews, maintainability reviews
- Testing Methods:** Controls testing, integration testing, field validation
- Commissioning Systems:** Plant commissioning, startup support, operational handoff
- Troubleshooting Tools:** System troubleshooting, field diagnosis, issue resolution
- Industrial Integration:** Electrical interfaces, mechanical interfaces, process interfaces
- Project Coordination:** Global project coordination, stakeholder coordination, multidisciplinary coordination
- Engineering Leadership:** Technical direction, mentoring, risk communication

SKILLS

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|-----------------------|------------------------|-------------------------|----------------------|
| Plant controls | Design reviews | Troubleshooting | Plant integration |
| Industrial automation | Interface coordination | Technical documentation | Technical leadership |
| Controls architecture | Testing | Mentoring | Problem solving |
| Control requirements | Commissioning | Global coordination | |

PROFESSIONAL AFFILIATIONS

- ISA member, engaged with industrial automation practices and professional controls engineering standards.
- IEEE member, connected with electrical engineering knowledge and continuing technical development.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST