

Dallas Gallegos

Senior Plant Controls Engineer

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SUMMARY

Senior Plant Controls Engineer with 15 years and 3 months of combined cycle power plant experience through September 2026. Leads controls work across gas turbines, steam turbines, HRSG systems, **balance of plant**, electrical interfaces, requirements, architecture, **system integration**, verification, validation, **Software Acceptance Tests**, startup, and commissioning. Guides complex projects from proposals through commercial operation, balancing reliability, maintainability, safety, cost, and schedule needs. Partners with customers, EPC organizations, software teams, suppliers, and global fulfillment groups through clear reviews, technical writing, baseline schedules, and **cost roll ups**. Mark VIe experience supports practical decisions across plant systems. Brings focused technical leadership, thoughtful collaboration, and strong delivery discipline to help a power systems organization commission dependable plants and earn lasting customer confidence.

EXPERIENCE

Lead Plant Controls Engineer

Blue Ridge Generation Systems 📅 January 2021 - Present 📍 Charlotte, NC 28202

Leads **combined cycle controls** programs spanning Mark VIe architecture, plant requirements, software delivery, system integration, validation, startup, and commissioning. Guides customer reviews, proposal support, technical decisions, cost roll ups, schedules, and globally distributed fulfillment teams while protecting reliability, safety, maintainability, and commercial commitments.

- Led Mark VIe architecture reviews for GT, ST, HRSG, and BOP controls, clarifying plant requirements.
- Directed **Agile software** execution and Software Acceptance Tests, improving readiness for customer validation and startup.
- Resolved electrical control interfaces during system integration, protecting commissioning milestones and **commercial operation** plans.
- Prepared proposal inputs, **technical writing**, schedules, and cost roll ups for complex customer programs.
- Coordinated **global fulfillment teams** through structured reviews, keeping technical decisions aligned with cost and **schedule targets**.
- Guided startup and commissioning issue resolution, helping operators receive dependable plant controls and clear documentation.

Senior Controls Engineer

Ironwood Energy Automation 📅 July 2016 - December 2020 📍 Charlotte, NC 28202

Supported large combined cycle controls deliveries from requirements definition through integration, verification, validation, startup, and commissioning. Served as a senior technical contributor across gas turbine, steam turbine, HRSG, balance of plant, **electrical controls**, customer reviews, and project planning.

- Defined control requirements for **gas turbine** and **steam turbine** packages, reducing ambiguity before detailed design.
- Integrated HRSG and balance of plant controls, creating consistent signals across plant operating modes.
- Built **verification** and validation plans for software and interfaces, giving teams clearer readiness evidence.
- Supported **Software Acceptance Tests** with customer teams, turning review findings into actionable closure plans.
- Analyzed startup issues across controls and electrical interfaces, restoring test progress with focused technical decisions.
- Documented **architecture** choices and tradeoffs, helping distributed engineers apply consistent design principles.

Controls Project Engineer

Crescent Thermal Projects 📅 July 2013 - June 2016 📍 Charlotte, NC 28202

Delivered project controls engineering for combined cycle plants, connecting customer requirements with architecture, software implementation, integration testing, documentation, startup, and field commissioning. Managed technical coordination across plant packages while supporting schedule, cost, quality, and operational goals.

- Translated customer requirements into plant controls designs for **GT**, **ST**, **HRSG**, and BOP equipment.
- Coordinated integrated testing across software and electrical interfaces, exposing gaps before field **startup**.
- Supported **commissioning** teams with control logic reviews, helping operators reach stable plant operation sooner.
- Maintained technical documentation and review records, giving customers traceable decisions throughout delivery.
- Tracked technical dependencies against project **schedules**, raising risks early for engineering and fulfillment leaders.
- Contributed proposal narratives and effort estimates, connecting engineering scope with practical delivery commitments.

Controls Engineer

Pioneer Turbine Controls 📅 July 2011 - June 2013 📍 Charlotte, NC 28202

Developed and tested controls solutions for turbine and plant support systems within combined cycle projects. Built early experience in requirements, control architecture, software testing, customer documentation, integration, startup support, and disciplined issue resolution.

- Configured turbine control functions from approved requirements, supporting reliable operation during integrated testing.
- Tested control sequences and alarm responses, documenting findings for senior engineering review and correction.
- Supported HRSG and **BOP** interface checks, improving signal quality before customer acceptance activities.

- Prepared technical notes and test records, making design intent easier for field teams to follow.
- Investigated commissioning discrepancies with senior engineers, helping close issues without disrupting planned milestones.
- Participated in **customer reviews**, capturing decisions and routing open actions to responsible technical owners.

Associate Controls Engineer

Riverbend Power Engineering 📅 July 2010 - June 2011 📍 Charlotte, NC 28202

Supported senior engineers on **combined cycle controls** projects, gaining practical experience with requirements, turbine systems, plant interfaces, software testing, documentation, and commissioning preparation. Contributed reliable analysis and organized records that helped teams move from design reviews into field execution.

- Reviewed control requirements for turbine packages, identifying incomplete signals before detailed configuration work.
- Supported plant interface testing with organized checklists, giving senior engineers dependable evidence for review.
- Updated controls documentation after design decisions, keeping project records aligned with approved **architecture**.
- Assisted software testing and defect tracking, helping teams close technical findings before customer demonstrations.
- Joined commissioning preparation activities, connecting factory test results with field startup expectations.
- Prepared concise issue summaries for engineering reviews, helping teams focus on decisions affecting schedule and quality.

PROJECTS

Combined Cycle Controls Modernization 📅 2024

Worked with customer and fulfillment stakeholders on a plant controls modernization effort spanning Mark VIe architecture, requirements, integration, validation, and commissioning readiness. Shared clear technical context so project decisions supported reliable operation and long term service confidence.

Plant Startup Readiness Program 📅 2022

Connected engineering, software, and field teams around startup readiness for turbine, HRSG, balance of plant, and electrical controls. Reviews focused on practical closure of test findings, clear ownership, and dependable commercial operation.

LEADERSHIP & AWARDS

- Recognized by engineering leadership for dependable technical ownership across complex combined cycle controls deliveries.
- Selected to guide customer reviews and distributed fulfillment teams through high risk integration and commissioning decisions.
- Praised for clear technical writing, structured issue closure, and steady support during startup activities.

EDUCATION

Bachelor of Science in Electrical Engineering

North Carolina State University 🎓 GPA: 3.5 📅 2010 📍 Raleigh, NC

Coursework: Power systems, control systems, electrical machines, engineering design

CERTIFICATIONS

- Combined Cycle Controls Training 📅 2026
- Mark VIe Controls Training 📅 2026

TECHNICAL SKILLS

- **Plant Control Platforms:** Mark VIe, gas turbine controls, steam turbine controls
- **Plant Systems:** HRSG, balance of plant, electrical controls
- **Engineering Methods:** requirements engineering, controls architecture, system integration
- **Testing Methods:** verification, validation, Software Acceptance Tests
- **Delivery Methods:** Agile software, startup, commissioning
- **Project Planning:** baseline schedules, cost roll ups, proposal support
- **Customer Delivery:** customer reviews, technical writing, EPC coordination
- **Control Engineering:** control logic, alarm management, operating sequences
- **Power Generation:** combined cycle plants, commercial operation, plant reliability
- **Quality Practices:** readiness reviews, defect tracking, issue closure

SKILLS

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|------------------|----------------|---------------------|-----------------------|
| • Plant controls | • Verification | • Technical writing | • Startup support |
| • Requirements | • Validation | • Customer reviews | • Electrical controls |

- Architecture
- Commissioning
- Cost roll ups
- Plant reliability
- System integration
- Agile software
- Schedule management

PROFESSIONAL AFFILIATIONS

- Member, International Society of Automation, with interest in industrial controls and plant reliability.
- Member, IEEE, staying connected with electrical engineering practice and power generation technology.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST