

Abigail Francis

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SUMMARY

Software configuration management leader with nine years guiding controlled baselines, traceable change, **reproducible builds**, compliant releases, and auditable delivery across regulated engineering programs. Leads configuration governance for concurrent embedded software efforts, connecting Git, GitLab CI, Jenkins, Azure DevOps, Cameo, Jira, and Azure Boards with practical release controls. Prepares Configuration Control Board materials, **impact analyses**, deviation records, waivers, **status accounting**, **build manifests**, release notes, and audit evidence. Partners with software engineering, systems engineering, quality assurance, DevOps, IT, security, and program management on planning, risk, architecture, and delivery decisions. Experienced with ISO 9001, CMMI, contractual requirements, SAFe Agile, Scrum, Kanban, and security controlled environments. Builds clear processes that help teams release dependable software with less friction and stronger evidence.

EXPERIENCE

Software Configuration Management Lead

February 2023 - Present

VectorForge Systems

Novi, MI

Leads configuration management for four concurrent embedded software programs, directing baseline governance, change control, release evidence, repository standards, audit preparation, and team guidance across controlled engineering environments.

- Governed four embedded programs through controlled baselines, change traceability, and release evidence.
- Prepared Configuration Control Board packages with impact analysis, **waivers**, **deviations**, and decision records.
- Standardized GitFlow and trunk based practices across GitLab and **Azure DevOps** repositories.
- Built Jenkins and **GitLab CI** automation for version stamping, packaging, manifests, and artifact checks.
- Maintained **ISO 9001** and CMMI records for audits, releases, security reviews, and **customer deliveries**.
- Guided engineers through Cameo relationships, Jira workflows, configuration procedures, and audit corrective actions.

Senior Software Configuration Analyst

June 2020 - January 2023

Aegis Mobility Technologies

Warren, MI

Managed software baselines, repositories, pipelines, development planning, architecture records, and delivery evidence for vehicle electronics programs spanning application software, middleware, testing, and documentation.

- Managed vehicle electronics baselines spanning application software, middleware, tests, interfaces, and documentation.
- Linked Git, **Jenkins**, Azure DevOps, and **Azure Boards** records across approved changes and releases.
- Developed Python and shell automation for **packaging**, checksums, naming, and manifest validation.
- Documented **Software Development Plans** covering lifecycle controls, **schedules**, risks, quality, and methods.
- Connected **Cameo** architecture artifacts with configuration records for clearer component impact analysis.
- Resolved configuration discrepancies before audits, customer reviews, delivery milestones, and release authorization.

Software Configuration Analyst

August 2017 - May 2020

Great Lakes Avionics Solutions

Southfield, MI

Supported regulated software programs through configuration identification, version control, build troubleshooting, release documentation, issue reconciliation, and delivery readiness within Scrum and Kanban teams.

- Maintained **configuration identification**, **version history**, status accounting, and controlled project baselines.
- Executed **Git** branches, merges, tags, and releases against approved build inputs and records.
- Supported Jenkins jobs and scripted builds, tracing configuration mismatches affecting reproducibility.
- Prepared change records, **release notes**, manifests, and audit evidence for customer checkpoints.
- Reconciled Jira defects with repository history and baseline contents before release authorization.
- Added configuration risk and dependency details during **Scrum** and **Kanban** planning sessions.

PROJECTS

Reproducible Release Pipeline 📅 2025

Quiet release work prevents loud production surprises. Built a controlled pipeline concept connecting Git, Jenkins, GitLab CI, manifests, packaging, checksums, and release evidence for repeatable software delivery.

Architecture Traceability Framework 📅 2024

Architecture becomes useful when decisions remain connected. Mapped Cameo components, software records, change requests, impact analysis, and delivery artifacts into a review friendly traceability model.

LEADERSHIP & AWARDS

- Configuration Governance Recognition, VectorForge Systems, 2025
- Audit Readiness Contribution Award, Aegis Mobility Technologies, 2022
- Release Process Improvement Recognition, Great Lakes Avionics Solutions, 2019

EDUCATION

Bachelor's Degree in Software Engineering2017

Oakland University GPA: 0Rochester, MI

Coursework: Software architecture, software development, configuration management, systems engineering

CERTIFICATIONS

- ITIL 4 Foundation 📅 2024
- SAFe 6 Practitioner 📅 2025

TECHNICAL SKILLS

- **Source Control:** Git, GitFlow, GitHub
- **CI/CD Platforms:** Jenkins, GitLab CI, Azure DevOps
- **Architecture Tools:** Cameo, UML, SysML
- **Issue Tracking:** Jira, Azure Boards, defect tracking
- **Build Automation:** Python, shell scripting, version stamping
- **Release Engineering:** Packaging, checksums, build manifests
- **Configuration Control:** Baselines, change requests, status accounting
- **Quality Standards:** ISO 9001, CMMI, contractual requirements
- **Delivery Methods:** SAFe Agile, Scrum, Kanban
- **DevOps Infrastructure:** DevOps, infrastructure as code, deployment pipelines
- **Architecture Documentation:** Components, interactions, design rationale
- **Audit Support:** Audit evidence, customer reviews, formal assessments

SKILLS

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|-------------------------------------|----------------|----------------------|-----------------------|
| • Software configuration management | • GitLab CI | • CI/CD | • Status accounting |
| • Git | • Jenkins | • Build automation | • Baseline management |
| • GitFlow | • Azure DevOps | • Release management | • Risk management |
| • Trunk based development | • Cameo | • Change control | |

PROFESSIONAL AFFILIATIONS

- Association for Configuration and Data Management participant, Detroit area
- INCOSE professional community participant, systems engineering collaboration

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST