



Thomas D. Smith

CAD Automation & Systems Integration Consultant | CAD Guardian

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CAD automation and systems integration consultant helping engineering leaders, CAD managers, document-control owners, operations leaders, and consulting buyers turn repeated CAD work into trusted workflows, validation gates, and reviewable output.

BUYER ROLES

- Engineering leaders
- CAD managers
- Document-control owners
- Operations leaders
- Procurement and consulting buyers
- Platform and workflow owners

CAD SYSTEMS

- MicroStation
- AutoCAD
- Inventor
- SolidWorks
- Revit/BIM
- Vault/PDM/PLM
- iLogic
- AutoLISP
- .NET
- SQL
- Power BI
- Validation

CAD GUARDIAN STRENGTHS

CAD automation assessment

Map the workflow, platform, output package, failure mode, and first safe decision before automation scope expands.

Drawing and package automation

Turn repeated PDFs, DXFs, naming rules, revisions, exports, BOM context, and review states into repeatable output paths.

Platform workflow integration

Connect MicroStation, AutoCAD, Inventor, SolidWorks, Revit/BIM, Vault, PDM, PLM, and adjacent data systems around the actual handoff.

Buyer-safe proof

Use validation checks, exception lists, and protected-artifact boundaries so buyers can review fit without leaking sensitive files.

RELEVANT DELIVERY CONTEXT

IBM (Contract)

2024 - 2025

Software Architect / Platform Modernization

- Owned modernization slices for specialized internal-platform applications, including service structure, maintainability, and delivery quality.
- Improved source control discipline, release notes, build verification, and clearer technical handoff.
- Connected platform behavior, operating constraints, and stakeholder expectations into scoped implementation decisions.

Habasit America

2022 - 2024

CAD Drafter

- Built workflow automation, request tracking, data extraction, and reporting tools for manufacturing and operations teams.
- Reduced manual coordination by turning repeated business activity into clearer intake, status, and management views.
- Moved improvements from spreadsheet habits into supportable systems with operators, managers, and technical stakeholders.

1Path Systems

2021 - 2022

Senior Software Architect

- Led architecture and delivery for internal software, integration, and business application improvements.
- Balanced hands-on engineering with planning, estimation, stakeholder communication, and ownership of technical outcomes.



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CAD automation, platform workflows, validation gates, and buyer-safe delivery

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BUYER SIGNALS

- CAD workflow friction tied to a buyer decision
- Platform-specific awareness without exposing protected detail
- Validation gates before automation expands
- Document-control and output-package discipline

CONSULTING PATH

- Start with CAD platform, workflow in view, output type, failure mode, business impact, and timeline.
- Do not send private drawings, title blocks, source files, credentials, client names, internal paths, or protected artifacts in first contact.

BUYER HANDOFF

- Workflow map and input/output assumptions
- Validation checklist and exception notes
- Pilot, prototype, utility, or stop recommendation
- Support, rollback, and owner handoff considerations

RELEVANT DELIVERY CONTEXT

Daikin Applied

2019 - 2021

Senior IT Applications Developer

- Delivered .NET, data, reporting, and enterprise workflow improvements.
- Supported operating teams with maintainable software changes and cross-functional technical communication.

Fry Reglet

2017 - 2019

Operations Technology Specialist

- Created operational tools, reporting improvements, and workflow support for manufacturing visibility.
- Turned process knowledge into repeatable systems that improved quote, tracking, and management routines.

CAD AUTOMATION DELIVERY PATTERN

Name the workflow

Capture platform, output, file assumptions, owner, reviewer, failure mode, and business decision before proposing a tool.

Prove one slice

Start with one drawing package, data cleanup, validation report, or workflow screen that a buyer can inspect and accept.

Protect the artifacts

Keep private drawings, source files, title blocks, credentials, client names, and internal paths out of first contact.

Leave a handoff path

Document inputs, outputs, skipped cases, review gates, rollback expectations, and next-scope options.

CAD Guardian resume content is intentionally buyer-safe. Private drawings, title blocks, source files, credentials, client names, internal paths, and protected project artifacts should move only through the right review channel after fit is established.