

# THOMAS D. SMITH

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US Citizen · Available to Interview Immediately

## SENIOR SOFTWARE ARCHITECT | SOLUTION ARCHITECT | AUTODESK + ENTERPRISE INTEGRATIONS

Architect and technical lead with 7+ years delivering production .NET systems and 12+ years across CAD, engineering, manufacturing, and construction workflows. Specialized in Autodesk ecosystems (Inventor, AutoCAD, Vault, ACC/BIM 360), enterprise integration architecture, governed data pipelines, and operational analytics. Proven record leading platform modernization, reducing Autodesk licensing spend by 24%, improving drawing throughput by up to 75%, and stabilizing mission-critical engineering workflows across engineering, IT, operations, and finance.

### CORE STRENGTHS

- Enterprise Architecture: API-led integration, system modernization, workflow orchestration, platform standardization
- Autodesk Ecosystem Leadership: Inventor API, AutoCAD .NET API, Vault/ADMS governance, plugin lifecycle management
- Data + Governance: SQL pipelines, metadata, lineage, auditability, RBAC, controlled data contracts
- Delivery Leadership: technical ownership, architecture reviews, incident resolution, SOPs/playbooks, stakeholder alignment
- Analytics + Reporting: Power BI executive dashboards, KPI modeling, portfolio and operational visibility
- Platforms: C#, .NET 8/9, ASP.NET Core, WPF, WinForms, EF Core, SQL Server, CI/CD

### PROFESSIONAL EXPERIENCE

#### IBM (Contract) — Autodesk Developer / Architect

##### Platform Modernization, Governance, and Integration

Remote · Jul 2025 – Dec 2025 - Architected modernization of Autodesk add-in platforms by migrating 3 production add-ins from .NET Framework 4.8 to .NET 8, improving maintainability, deployment consistency, and upgrade readiness. - Converted 2 legacy AutoCAD plugins into Inventor 2025-compatible solutions aligned to updated business workflows and platform standards. - Supported 27 users across 4 business units during Autodesk 2023 to 2025 upgrade activity, stabilizing engineering operations through controlled rollout and issue resolution. - Established enterprise deployment patterns using MSI/MSIX, ClickOnce, CI/CD pipelines, and version enforcement across dev, test, and production. - Owned Vault governance including lifecycle states, categories, security, and property controls, reducing repeat issues by 60%. - Implemented resilient integration patterns including validation gates, retry/backoff, idempotency, and structured logging

for job processors and connected services. - Resolved platform incidents involving configuration drift, permission conflicts, queue reliability, API/SDK regressions, and lifecycle misrouting without rollback.

### **Habasit America — CAD Automation + Data Workflow Developer**

Suwanee, GA · 2024 - 2025 - Increased drawing throughput from 8 per day to 12-14 per day by standardizing inputs, automating data handling, and improving request quality. - Reduced clarification loops by 60% through structured data extraction from CRM and email-driven drawing requests. - Built production KPI dashboards using Pareto-based analysis to improve workflow visibility and support operational decision-making. - Served as the technical bridge between drafting, engineering, production, and data workflow improvement initiatives.

### **1Path Systems — Senior Software Architect**

Atlanta, GA · Sep 2022 - Mar 2023 - Modernized ERP-connected business systems, improving application performance by 18% and reducing defects by 20%. - Implemented secure integrations including SSO and API-based connectivity to improve reliability and governance across enterprise workflows. - Contributed architecture leadership across modernization planning, system integration, and secure delivery standards.

### **Daikin Applied — Senior IT Applications Developer**

#### **Autodesk Governance and Enterprise Systems**

Minneapolis, MN · Dec 2021 - Jun 2022 - Reduced Autodesk licensing costs by 24% in 7 months by implementing a token-based licensing model, governance SOPs, and enterprise training. - Standardized entitlement governance across engineering, IT, and operations to improve utilization and decision-making. - Built reporting for entitlement tracking, adoption, and optimization cadence. - Reduced recurring platform issues by 80% through targeted production improvements and governance controls.

### **Fry Reglet — Operations Technology Specialist**

#### **Integration Architecture and CAD Automation**

Alpharetta, GA · 2017 - 2021 - Designed and implemented enterprise integration architecture connecting engineering systems, ERP (Navision), shop floor operations, warehouse workflows, and BI reporting. - Built current-state to future-state system maps and executed integration strategy across quoting, orders, scheduling, labor tracking, and production visibility. - Developed web services and XML/JSON data pipelines supporting quote-to-cash workflows and reliable transaction flow. - Enabled executive and operational analytics through Power BI dashboards backed by governed master data and transaction states. - Progressed from CAD Technical Manager to acting Software Developer / Automation Lead based on technical ownership and cross-functional delivery.

## **SELECTED ARCHITECTURE HIGHLIGHTS**

- ACC Docs + Build Integration: Designed API-driven workflows to ingest RFIs, submittals, and issue data into a governed SQL layer using validation, idempotency, and retry/backoff patterns.
- ACC Insight-Aligned Analytics: Built structured datasets powering Power BI dashboards for portfolio health, cost visibility, and issue governance with RBAC and end-to-end lineage.

- Executive Reporting: Delivered portfolio health and financial performance dashboards supporting risk tracking, budget vs. actuals, cost drivers, and drill-down analytics.

## **CERTIFICATIONS / TRAINING**

- Autodesk Construction Cloud (Docs, Build, Cost, Insight) — Refresher in Progress
- Autodesk University — ACC and Integration Strategy
- LinkedIn Learning — 70+ Certifications

## **TARGET ROLES**

Senior Software Architect · Solution Architect · Platform Architect · Autodesk Solutions Architect · Enterprise Integration Architect