Thomas D. Smith

Software engineering, .NET architecture
and Autodesk integration.

Atlanta, GA · Hybrid / Onsite / Remote
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Architecture through implementation

I build .NET applications, Autodesk integrations and the workflows between them. My technical focus includes CAD-hosted desktop software, API integration, engineering data and operational reporting.

Discuss senior, staff and principal engineering or architecture roles. Scope, work arrangement, compensation and availability are confirmed in conversation. Project consulting is available through CAD Guardian LLC.

Technical focus

Desktop software	C#, .NET, WPF and WinForms; interface boundaries, application logic and controlled deployment.
CAD integration	Autodesk APIs, AutoCAD and Inventor plugins, Vault governance and host adapters.
Enterprise workflows	ASP.NET Core, API integration, SQL data flows, validation, retries and operational reporting.
Delivery practice	Architecture reviews, defined acceptance criteria, implementation checks and documented handoff.

Public architecture studies

Platform-agnostic plugin migration. Separate core WPF application logic from CAD host APIs through interfaces and platform adapters.

Shared UI boundary modernization. Extract reusable views, themes and dialogs while host-specific integration stays at the edges.

Read the public explanations at tsmithcode.ai. Client source code and private project records are not included.

SELECTED CAREER HISTORY

Engineering & delivery experience

IBM (Contract) · Autodesk Developer / Architect

July 2025 – December 2025 · Remote

Autodesk platform modernization, .NET migration, plugin deployment, Vault governance and integration patterns. Work included API/SDK changes, configuration, permissions and job-processing reliability.

Habasit America · CAD Automation + Data Workflow Developer

2024 – 2025 · Suwanee, GA

Drawing-request data handling, CRM/email extraction, CAD workflow automation and production reporting. Connected drafting and engineering requirements with operational data workflows.

1Path Systems · Senior Software Architect

September 2022 – March 2023 · Atlanta, GA

ERP-connected business systems, application modernization, secure API integrations and architecture planning.

Daikin Applied · Senior IT Applications Developer

December 2021 – June 2022 · Minneapolis, MN

Autodesk licensing and entitlement governance, SOPs, training and reporting for engineering and IT operations.

Fry Reglet · Operations Technology Specialist

2017 – 2021 · Alpharetta, GA

Integration architecture connecting engineering, ERP, shop-floor and warehouse workflows. Web services, XML/JSON pipelines and Power BI reporting supported business operations.

Start the conversation

Share the role or software problem, the team, your work arrangement, timeline and compensation or project scope. We can then review the relevant technical decisions together.

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For specialist CAD and engineering workflow consulting: cadguardian.com.