

Kaden Goodell

Madison, AL · kaden.goodell@gmail.com · 402-980-2907 · Top Secret (lapsed)

Senior software architect, 12+ years across military intelligence, defense training systems, manufacturing, and PLM/PDM SaaS. Currently Senior Staff at Duro (acquired by Altium), where I was a primary architect on the full-platform PLM rebuild that catalyzed our acquisition, its multi-CAD plugin layer (SolidWorks, NX), and its PDM integrations (SolidWorks PDM and others). AI is how I ship. US Air Force veteran.

HIGHLIGHTS

- A primary architect on Duro's full-platform PLM rebuild — the rebuild that catalyzed our acquisition by Altium.
- Built Duro's multi-CAD plugin layer — a unified abstraction with SolidWorks and NX adapters, exposed as a reusable `.NET SDK` that opened a partner-integration channel.
- Architected Duro's PDM integration layer — including a SolidWorks PDM integration alongside others — for migration and bidirectional sync with clients' incumbent tooling.
- Worked with AI as an engineering partner from the earliest days — ChatGPT → Cursor → Claude Code — adapting practice with each generation. Significant contributor to `Jig`, Duro's open-source AI-workflow toolkit for engineering teams.
- Built and led a 4-engineer integrations team — hiring, performance, and roadmap.
- US Air Force veteran (Airborne Korean Linguist → Tactical Support Operator). Top Secret clearance (lapsed).

EXPERIENCE

Senior Staff Software Engineer · Head of Integrations

Mar 2023 – Present

Duro (acquired by Altium) · Los Angeles, CA (Remote)

- Architected Duro's multi-CAD plugin platform — a unified abstraction layer with SolidWorks and NX adapters, exposed as a reusable `.NET SDK` so partners and downstream teams can integrate additional CAD systems without touching the core.
- A primary architect on the full rebuild of Duro's PLM platform after the prior architecture hit a scaling ceiling with the largest customers; the rebuild catalyzed Duro's acquisition by Altium.
- Architected Duro's PDM integration layer — including a SolidWorks PDM integration alongside other client PDM systems — enabling migration and ongoing sync so customers can adopt Duro without ripping out incumbent tooling.
- Architected the Altium integration rewrite and built the majority of the implementation before handoff to a teammate — bridging Duro's PLM with Altium's broader tooling.
- Worked with AI as an engineering partner since the earliest days — ChatGPT → Cursor → Claude Code — adapting practice with each generation of tooling. Every feature shipped in the last year was built that way: sub-agents, command pipelines, standardized workflows. Significant contributor to `Jig`, Duro's open-source AI workflow toolkit.
- Built and managed the integrations team — up to 4 direct reports, full ownership of hiring, performance, and roadmap.
- Architected backend services in Node.js / NestJS + GraphQL on PostgreSQL, powering both plugin integrations and the web client.
- Established CI/CD pipelines (GitHub Actions) automating build, test, and deployment.

Senior Software Engineer

Jan 2019 – Mar 2023

Radiance Technologies · Huntsville, AL

- Developed a distributed training system for military applications using C#, .NET Core, WPF, and React, supporting Army, Air Force, SOCOM, and foreign military clients.
- Built MEF plugin-based front-end and backend systems with an embedded Java-based map for real-time student feedback.
- Leveraged C++ for high-performance calculations and ActiveMQ for real-time messaging across distributed components.
- Established Agile and CI/CD practices using the Atlassian toolset (Jira, Bamboo, Bitbucket, Confluence).

Software Engineer

Jan 2017 – Jan 2019

SAIC · Huntsville, AL

- Developed the Global Hawk Sensor Operator Part Task Trainer using C#, MVVM, and Visual Studio; led migration from Team Foundation Server to Azure DevOps.
- Contributed to architecture pattern selection and established testing standards including TDD and gated check-ins.

Full-Stack Software Engineer

Jan 2014 – Dec 2015

Nucor Steel · Tuscaloosa, AL

- Led full-stack development and maintenance of responsive applications using ASP.NET, JavaScript, jQuery, T-SQL, HTML, and CSS.

Tactical Support Operator

Mar 2011 – Sep 2012

US Air Force

- Provided real-time support to Special Forces units during critical operations, including location, acquisition, and elimination of high-value targets; coordinated across diverse cultures, ranks, and partner nations.

Airborne Korean Linguist

Aug 2007 – Mar 2011

US Air Force

— Operated, evaluated, and managed airborne intelligence information and related ground processing systems.

SELECTED PROJECTS

Duro PLM Platform + Multi-CAD & PDM Integrations

Duro / Altium

A modern PLM/BOM platform for hardware engineering teams, plus the multi-CAD plugin layer that lets engineers work natively with Duro from inside SolidWorks and NX — and the PDM integrations (SolidWorks PDM and others) that bridge to clients' incumbent tooling.

PLM PLATFORM REBUILD

Re-architected and rebuilt Duro's PLM platform from scratch after the prior architecture hit a scaling ceiling with the largest customers. React web client backed by a Node.js / NestJS + GraphQL API on PostgreSQL, powering both the UI and every plugin integration.

MULTI-CAD INTEGRATION LAYER

CAD-agnostic core plus thin per-CAD adapters that implement a clean contract; adapters run inside the host CAD (SolidWorks, NX). Exposed as a reusable [.NET SDK](#) so partners and downstream teams can add new CAD systems without touching the host app's UX, API, or data layer.

PDM INTEGRATIONS

Integration layer connecting Duro to clients' incumbent PDM systems — including a SolidWorks PDM integration alongside others — for migration and ongoing bi-directional sync so customers can adopt Duro without rip-and-replace.

OUTCOME

The PLM rebuild was the trigger for Duro's acquisition by Altium.

STACK

.NET Core, C#, WPF, React, Node.js, NestJS, GraphQL, PostgreSQL, NuGet SDK distribution.

Jig — Standardized AI Workflow for Engineering Teams

Duro · open source

Open-source toolkit codifying how Duro's engineers actually work with AI day-to-day — a shared vocabulary of sub-agents, commands, and patterns any team can adopt.

MY ROLE

One of the earliest Claude Code adopters on the team and a significant contributor to the patterns Jig standardizes. Jig emerged from everyone comparing notes and we built it together; my contributions shaped what became the published toolkit.

WHY IT MATTERS

AI-assisted engineering is most powerful when a team shares a workflow. Jig captures that workflow as installable, executable artifacts.

EDUCATION & CERTIFICATIONS

Master of Business Administration (MBA)

Auburn University · In progress

Associate Technical Fellow

Radiance Technologies · Apr 2021

Bachelor of Science in Computer Science, Mathematics Minor

The University of Alabama · May 2016

Linguistics Certification with Honors in Korean Language

Defense Language Institute

SKILLS

LANGUAGES & FRAMEWORKS

.NET Core · C# · TypeScript · JavaScript · Java · Python · SQL · PostgreSQL · GraphQL · REST · React · WPF · Astro · Node.js · NestJS

AI-NATIVE DEVELOPMENT

Claude Code · sub-agents & commands · MCP · Jig (open source)

CAD, PDM, PLM & COM INTEROP

SolidWorks · NX · SolidWorks PDM · PLM / PDM integration design · multi-CAD adapter architecture · WPF/MEF plugin architecture

CLOUD & DEVOPS

GitHub Actions · AWS (incl. GovCloud) · Cloudflare · Docker · CI/CD pipelines

LEADERSHIP

Technical leadership · Hiring & team building