



CUSTOMER SUCCESS STORY

An Architecture Firm Cuts Project Delivery Time by 35% and Reduces Design Rework by 45% with AI

A mid-sized architecture firm was spending too much time on repetitive design tasks, missing project deadlines, and dealing with costly rework that could have been avoided earlier in the process. They came to GSDC AI Consulting to bring smarter tools into their workflow. Ten weeks later, projects were moving faster, rework had dropped significantly, and the team was spending more time on the creative work they loved doing.

75+

Staff Impacted

10

Weeks Engagement

35%

Faster Project Delivery

45%

Design Rework Reduced

AI for architecture firms is opening up a new way of working that most practices have not yet explored. A surprising amount of time in most firms goes on tasks that are repetitive and mechanical – generating design variations, checking drawings for compliance, managing project timelines, and producing documentation. AI tools for architects are making it possible to automate these tasks so teams can focus on what they do best.



The Challenge

Program Profile

AI Focus: Design Automation & Project Intelligence

Industry: Architecture & Built Environment

Region: North America, UK & Europe

Audience: Architects, Project Managers & Operations Teams

The firm was growing but the way it operated was not keeping up. Architects were spending hours generating design options manually. Compliance checks were being done by hand – slow and leaving room for things to be missed. Project timelines were tracked through spreadsheets and updates were inconsistent, making it hard to see where a project actually stood. When issues were caught late in the design process, rework was expensive and disruptive.

Design Rework

Costly corrections late in the process due to issues not caught early enough.

Slow Project Delivery

Manual design generation and administrative tasks consumed hours each week.

Manual Compliance Checks

Hand-reviewed drawings left room for errors and regulatory oversights.

Poor Project Visibility

Spreadsheet-based tracking made it impossible to see where projects truly stood.

Consulting Approach

GSDC started by understanding how the firm worked – from the moment a project brief came in to the point final drawings were handed over. They looked at where time was being lost, where errors were most likely to creep in, and where the team felt most stretched. From there they focused on changes that would make the most immediate difference to project delivery and design quality.



AI Design Generation

Produces multiple design options quickly based on project brief parameters so architects can explore more ideas in less time.



Automated Compliance Checking

Reviews drawings against building regulations and flags issues early before they become expensive problems.



AI Project Management

Tracks timelines, flags delays before they happen, and gives everyone a clear picture of where each project stands.



Documentation Automation

Project records and client updates are produced automatically without taking up large amounts of staff time.



Cost Estimation Tool

Gives early and accurate budget projections based on design decisions made during the project, keeping clients and teams aligned on costs.



Practical Staff Training

Tailored training for architects, project managers, and operations staff with simple guides left with the team for ongoing reference.

Implementation Plan

The ten-week engagement was structured to deliver impact quickly while building lasting capability across the firm.

Weeks 1–2: Discovery & AI Readiness Audit

The team examined how design work was being done, how compliance was checked, how timelines were tracked, and where the most time was being lost. A clear report identified the biggest problems and which AI tools would have the strongest impact first.

Weeks 4–6: AI Design Generation & Compliance Automation

An AI design tool was set up to take a project brief and quickly generate a range of design options. What used to take days could now be done in a fraction of the time. Automated compliance checking was also deployed to flag issues before they moved further through the design process.

Weeks 7–9: Documentation Automation & Cost Estimation

Automated documentation tools handled project records, specifications, and client reports. A cost estimation tool produced early budget projections based on design decisions so clients and the team always had a realistic picture of where costs were heading.

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Week 3: Use Case Identification & Business Case

Conversations with senior architects, project managers, and operations staff surfaced three consistent pain points: design exploration taking too long, compliance issues caught too late, and poor project visibility making it hard to manage client expectations.

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Weeks 5–8: AI Project Management & Timeline Tracking

A project management tool gave everyone a live view of where each project stood. Deadlines, outstanding tasks, and potential delays were all visible in one place – no manual spreadsheet updates required. The tool flagged at-risk projects early enough for the team to act.

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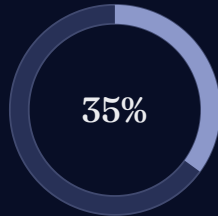
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Week 10: Staff Training & Outcome Review

Training was delivered for all staff groups with guidance relevant to their daily work. Simple guides were left with the team. The final week also reviewed project delivery times, rework rates, compliance issues, and time saved across the firm.

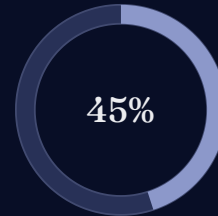
Outcomes

Ten weeks in and the firm was working very differently. Projects were moving faster because design exploration, compliance checking, and documentation were all taking a fraction of the time they used to. Rework had dropped significantly because issues were being caught earlier in the process. And the team had real creative time back each week that used to go on manual and administrative tasks.



Faster Project Delivery

Across all active projects following AI tool deployment.



Design Rework Reduced

Issues caught earlier in the process before becoming costly corrections.

"We were spending so much time on tasks that had nothing to do with design. Generating options manually, checking compliance by hand, chasing project updates. GSDC helped us automate all of that and the difference has been enormous. Our projects are delivering faster, our rework is way down, and our architects are finally doing the work they trained to do."

Managing Director | Architecture Firm | North America ★★★★★

📄 Ready to replicate these results?

Talk to our team about how AI for architecture firms can work for your practice. We will look at where your team is losing time and put together a simple plan to help you deliver better projects faster.

[Learn more at gsdcouncil.org →](https://gsdcouncil.org)