

Claude Code Powers a 60% Reduction in SDLC Effort at rSTAR Technologies

CASE STUDY



Overview

rSTAR Technologies, an AI consulting and engineering firm, built an AI-powered SDLC Accelerator using Claude Code to automate and standardize software delivery workflows from requirements analysis through testing and technical documentation across 20+ engineers and multiple customer engagements.

CHALLENGE & SOLUTION



The Challenge

Manual, time-consuming creation of engineering artifacts (requirements, architecture documents, work items, implementation plans, test cases, code scaffolding, and governance documentation) led to inconsistent delivery standards, slow project onboarding, and a growing bottleneck on engineering capacity as the practice scaled.



The Solution

As rSTAR's AI consulting and engineering practice grew, the team found itself spending too much engineering time on the same repetitive work: requirements documents, architecture designs, Azure DevOps work items, implementation plans, test cases, and governance documentation, for every single engagement. As a result, rSTAR built its own AI-Powered SDLC Accelerator using Claude Code to solve this internally.

rSTAR embedded Claude Code across its entire delivery lifecycle, from requirements analysis and solution design to Azure DevOps work item creation, implementation planning, code generation, testing, governance reviews, and technical documentation. Instead of letting each team or engineer approach these tasks differently, rSTAR standardized the workflows so every engagement follows a consistent, repeatable process.

This gave rSTAR reusable delivery accelerators, templates and workflows that could be applied across new customer engagements instead of rebuilding artifacts from scratch each time. It also enabled rSTAR engineers to spend less time on documentation and manual artifact creation, and more time on the actual engineering work that adds value for clients.

Today, the accelerator is used by more than 20 engineers and engineering leaders across rSTAR's architecture, development, governance, and AI enablement teams, and it has become a scalable foundation rSTAR can continue building on as it takes on more AI consulting work.

TECHNOLOGIES



RESULTS



- ~60% reduction in technical documentation effort



- ~50% reduction in architecture and design documentation time



- ~60% reduction in test case creation effort



- ~40% reduction in engineering analysis and review effort



- 40–60 engineering hours saved per month



- Adopted by 20+ engineers and leaders across architecture, development, governance, and AI enablement



- Faster onboarding, more consistent deliverables, and a scalable foundation for future engagements

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