



CRITCHFIELD MECHANICAL

The Automation Bottleneck:
Critchfield Mechanical's Search for Efficiency

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OVERVIEW

Critchfield Mechanical, a respected MEP contractor, had built a strong reputation in the industry. The Northern California branch of the company was forward-thinking, having adopted Revit early on for its design processes.



BACKGROUND

However, they soon encountered a significant hurdle: Revit, while powerful, had limitations when it came to the specifics of mechanical services, particularly sheet metal and hanger design. Their existing workflows were far from automated.

They relied heavily on the Autodesk Fabrication Suite, and as they transitioned to Revit, they found themselves resorting to manual processes, especially for generating reports and coordinating between different teams. This lack of automation created several pain points.

THE CHALLENGE

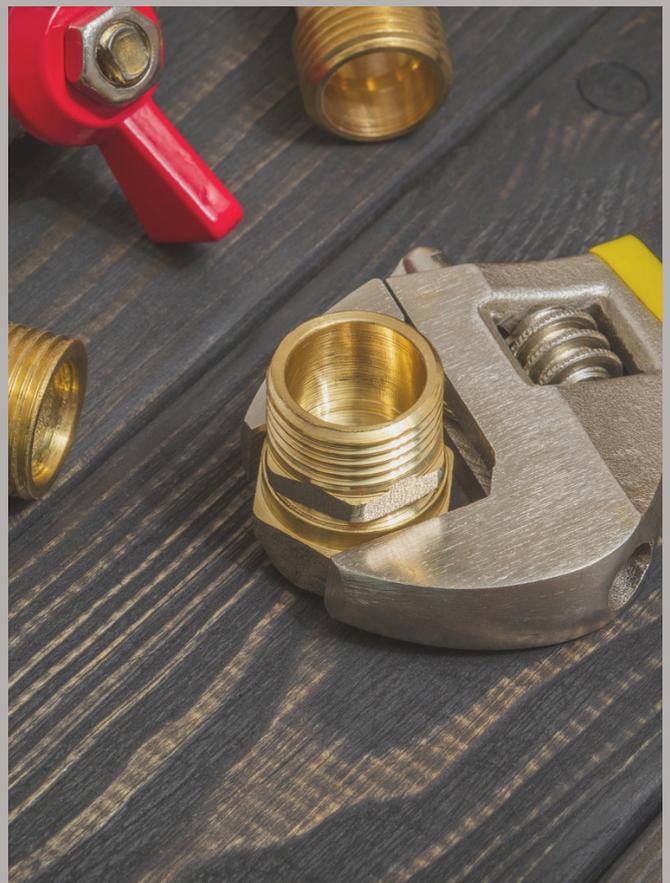
As Critchfield Mechanical continued its transition to Revit, several critical challenges began to surface—each impacting productivity and overall project delivery:



- **Inefficiency:** The absence of automated tools meant time-consuming manual tasks, slowing down project timelines.
- **Reporting Bottlenecks:** Generating accurate and timely reports was a laborious process, prone to errors.
- **Design Limitations:** Revit's constraints hindered their ability to efficiently design sheet metal and hanger systems.

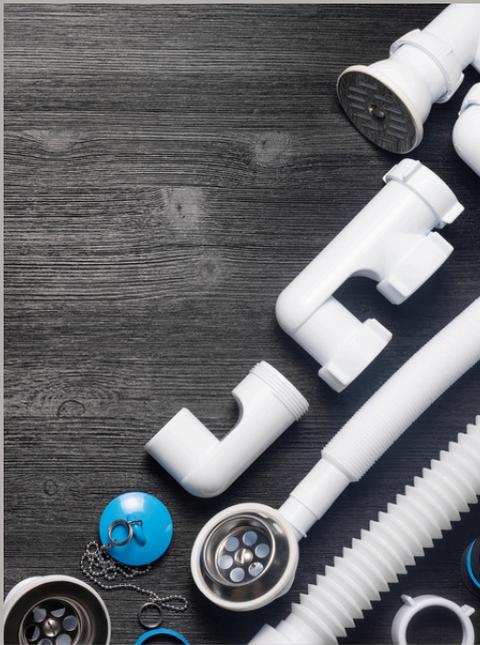
- **Coordination Gaps:** Difficulty in streamlining coordination between detailing, fabrication, and field teams led to potential miscommunication and delays.
- **Change Order Tracking:** Accurately tracking and accounting for the time spent on change orders was a major issue, making it difficult to defend budgets.

Recognizing that these were not isolated issues but systemic inefficiencies, Critchfield Mechanical saw the need for a comprehensive solution—one that would not merely patch individual pain points, but transform their workflows through automation and integration.



THE CRITICAL TURNING POINT

Prior to implementing EVOLVE, Critchfield Mechanical faced significant workflow inefficiencies. While the team initially relied on the Autodesk Fabrication Suite, their transition to Revit introduced new challenges. Critical tasks—such as reporting and coordination—required manual processes, resulting in reduced efficiency and limited scalability.



These challenges had a measurable impact:

- **Reduced Productivity:** Manual tasks and inefficient workflows hampered the team's productivity.
- **Increased Costs:** The time spent on manual work and potential errors drove up project costs.
- **Project Delays:** Inefficient processes threatened project timelines, potentially affecting client satisfaction.

Critchfield Mechanical shopped around for the support they knew they needed and chose EVOLVE for its ability to expand Revit's capabilities and provide the automation tools they desperately needed.

A NEW WAY FORWARD

EVOLVE offered a suite of features that directly tackled Critchfield's pain points:

- **Automation Tools:** EVOLVE provided tools to automate tasks like annotation, reporting, and hanger design, significantly reducing manual effort.
- **Enhanced Revit Functionality:** EVOLVE extended Revit's functionality for mechanical services, empowering Critchfield Mechanical to design more efficiently.
- **Stratus Integration:** EVOLVE's ability to integrate with their existing Stratus tracking and spooling system streamlined workflows and eliminated manual data transfer.

EVOLVE empowered Critchfield Mechanical to break free from the constraints of manual processes and embrace the power of automation, leading to greater efficiency, reduced costs, and improved project outcomes.

The impact of EVOLVE was transformative:

- **Significant Time Savings:** Automation drastically reduced the time spent on tasks like fabrication preparation (e.g., from 40 hrs to 8).
- **Improved Efficiency:** Workflows across the board became more efficient, allowing the team to accomplish more in less time.
- **Enhanced Accuracy:** Automated reporting tools improved the accuracy of reports, reducing the risk of errors.
- **Better Coordination:** Streamlined workflows and improved data flow facilitated better coordination between teams.

FUTURE EFFICIENCY WITH EVOLVE



Critchfield Mechanical's successful implementation of EVOLVE marks a significant step forward in optimizing their Revit workflows.

By addressing critical challenges in automation, reporting, and design efficiency, EVOLVE has empowered Critchfield Mechanical to achieve substantial time savings and improve overall productivity.

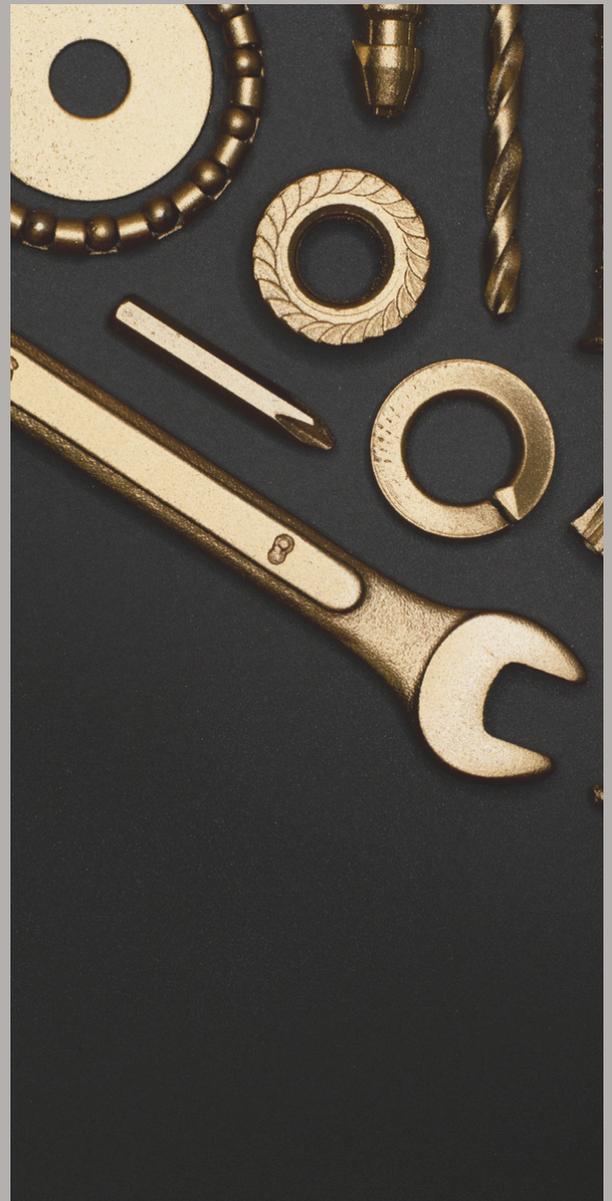
Looking ahead, Critchfield Mechanical is well-positioned to further leverage EVOLVE's capabilities and explore new avenues for enhancing their operations.

Key focus areas include:

Expanding EVOLVE Utilization: Critchfield Mechanical aims to deepen its engagement with EVOLVE's features to maximize its return on investment. This involves continued training and adoption of advanced tools to address a wider range of project needs.

Enhancing Integration: The continued development of seamless integration between EVOLVE and other platforms, such as their Stratus tracking system, presents an opportunity to further streamline workflows and eliminate manual data transfer.

Driving Innovation: Critchfield Mechanical's feedback plays a crucial role in EVOLVE's ongoing development. By actively communicating their needs, such as the development of a Change Order Manager tool, they contribute to the evolution of a solution that meets the evolving demands of the MEP industry.





EVOLVE's spooling features integrate with Stratus, reducing manual back-and-forth. Ex. decreasing from forty hours to eight for fabrication prep on a project.

LOOKING FORWARD

EVOLVE remains committed to supporting Critchfield Mechanical in their journey towards greater efficiency and innovation. As Critchfield Mechanical continues to leverage the power of EVOLVE, they are poised to achieve even greater success, setting a new standard for efficiency and innovation in the MEP industry.

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"This is a really good suite of tools. I can't tell you one thing that we need to do that is not included in the product."

THANK YOU!

Inspired by Critchfield Mechanical's success story?
Get in touch with us to start your journey toward
outstanding results.



Contact us!