

## Case Study

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# Adicot, Inc. Created HVAC Calculators with Zero Coding

### The Challenge

Adrienne Gould-Choquette is a mechanical engineer and the Principal at Adicot, Inc. Adicot is a certified Women-Owned Business specializing in commercial HVAC/Mechanical Engineering. The company uses industry best practices, sound engineering principles, and strong knowledge of the Mechanical and Energy Conservation Codes to ensure reliable indoor environments. They offer heat load calculations, energy code compliance documentation, system selection, and duct layout and design.

Early on, when Adrienne realized she was repeating the same hand calculations, she decided to create Excel spreadsheets to automate those calculations, reduce errors, and improve efficiency. Using various user interface software programs in conjunction with Excel, Adrienne began uploading these fairly simplistic engineering calculators to Adicot's website. The calculators were now easy to access in the office or in the field. As Adicot's database of calculators grew, so did their complexity, and the user interface software options could no longer keep up with the sophistication and complexity of the calculations.

Adicot was looking for a solution that would save time, removing the need for repetitively re-processing engineering calculations while still allowing them to be easily shared on the company website. And now, since thousands of engineers use these calculators each month, Adicot also had an established end-user experience standard that they were unwilling to compromise. They began looking for a new user interface integration software program to convert their Excel spreadsheets' increasingly complex calculations to a web-based platform.

### The Solution

Initially, Adicot eliminated custom coding as an option since it was time-consuming and costly, instead opting for a platform where they could perform simple calculations. They then found a solution where they could perform calculations in Excel in conjunction with a user-interface software program. This solution worked for a time; however, as the calculators' Excel backend programming became more sophisticated, they outgrew this user-interface software's abilities.

Adrienne needed to find a platform that more fully supported integration features. At this point, she found SpreadsheetWeb. Adrienne describes her process with the other platforms: "Up until now, I either used a platform that was only able to do very basic calculations or a platform that turned my spreadsheets into a web application. But it got to a point where the complexity of the calculators outgrew both of these solutions".

Adrienne describes the process of finding SpreadsheetWeb: "I knew I wanted to continue to program in Excel but needed a more robust user interface platform. I contacted several companies. The SpreadsheetWeb team was the fastest to respond. We had a video meeting either that day or the next day. They satisfactorily answered every one of my questions. I realized that SpreadsheetWeb could solve my compiling problem."

### The Results

With SpreadsheetWeb, Adrienne solved her main problem: to easily embed her calculators on Adicot, Inc.'s web page. Adrienne was impressed with the easy-to-use, "what you see is what you get" UI of SpreadsheetWeb. Having

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decided to use SpreadsheetWeb, Adrienne notes that the process is faster than she expected. Adrienne says that the SpreadsheetWeb team was accommodating and responsive throughout the process: "It was pretty quick, quicker than I expected. Working with the onboarding team, the first calculator took about a month. The SpreadsheetWeb team did an amazing job. They turned around any changes I requested in just a day or two. And because of their support and their vast library of instructional videos, I independently created my next calculator from start to finish in one day."

Adicot, Inc. was able to build their application and host it for a fraction of the cost of custom building a web application from scratch. They quickly programmed and added their HVAC calculators to their web page. They also hope to improve their client base by increasing their audience with SpreadsheetWeb. With SpreadsheetWeb's

knowledge base and tutorial videos, everyone can find answers to their questions about the SpreadsheetWeb platform and easily apply the required changes to their application. Adrienne mentions this advantage: "Online learning is critical for me. With SpreadsheetWeb, I have found an article or a video to answer every question I have come across." With SpreadsheetWeb's user-friendly platform, Adicot, Inc. does not need to hire developers – they can make their edits and publish them in minutes.

For more information, please contact:

**Pagos, Inc.**

75 2<sup>nd</sup> Ave. Suite 605

Needham, MA 02494, USA

Tel: (860) 674-9100

Fax: (860) 674-8430

[info@pagos.com](mailto:info@pagos.com)

[www.pagos.com](http://www.pagos.com)

