

# REVERSE ENGINEERING & USER EXPERIENCE (UX) IMPROVEMENTS

The screenshot displays a software interface with a circular view. The top navigation bar includes icons for 'Edit Contractor', 'Return Home', 'Update Sheet', 'Clear Sheet', 'Rename Sheet', 'Generate Text Files', 'Protect Workbook', and 'Settings'. Below this, the 'Contract % Complete' section shows a table with the following data:

Contract % Complete:	
Total Base Contract Labor	\$ -
Total Base Contract Labor Produced	\$ -
Total Base Contract Labor Remaining	\$ -
Total Allowance Produced	\$ -
Total Modification Produced	\$ -
Total Work Produced To Date	\$ -

To the right of this table, a sidebar lists project details: Project Name, Job ID, Number of Buildings, Project Start Date, Expected End Date, and First Payout Date.

Below the contract summary is the 'Labor Summary Table' with columns for Invoices, Contractor, Paid To Date, and two columns for 1/1 and 1/8. The table contains multiple rows of data, all showing zero values.

At the bottom, there is a 'Misc Expenses' section with a table for 'Input from Salesforce' containing rows for GL Insurance, Misc, and a total row showing \$ -.



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## BACKGROUND & REQUIREMENTS

### Background

The client's workbook was semi-automated by a previous developer who was unable to continue working on the project. The client needed to find a new developer to revise and update functionality in the existing workbook.

### Requirements

Reverse Engineer the existing workbook to understand how it works so that requested updates and improvements could be made. While analyzing the existing automation, identify opportunities for improvements and further automation.



## THE BLUEPRINT

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**Create a fully automated Excel workbook that will:**

- ✓ Reverse engineer the existing workbook and its functions
- ✓ Work closely with client to modify the workbook per their needs
- ✓ Improve the workbook visually to enhance the user experience by making it look less like Excel and more like a custom application

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### Skills & Expertise Utilized

- Automation with Excel VBA
- Data formatting
- Data Analysis and Visualization
- Custom UI Design
- Custom Tab in Excel Ribbon



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The screenshot displays the Alteon Project Tracker software interface. A blue circle highlights the top-left corner, showing a menu with options: Edit Project, Add Bucket, Edit Bucket, Add Contractor, and Edit Contractor. Below this menu is a section titled "Project Tracker Functions".

Another blue circle highlights the "Project Information" section, which includes fields for Project Name, Job ID, Number of Buildings, Project Start Date, Expected End Date, and First Payout Date.

A third blue circle highlights the "Labor Summary Table", which is a large table with columns for Contractor, Paid To Date, and various dates (1/1, 1/8, 1/15, 1/22, 1/29, 2/5, 2/12, 2/19, 2/26). The table contains multiple rows of data, including Total Base Contract Labor, Total Base Contract Labor Produced, Total Allowance Produced, Total Modification Produced, and Total Work Produced To Date.

Annotations with blue lines point to specific features:

- "Client Branding" points to the Alteon Solutions logo in the top right corner.
- "De-cluttered & Cleaner Layout" points to the overall interface design, specifically the Labor Summary Table area.

## Client Branding



## De-cluttered & Cleaner Layout



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