

# CLIMATE ENGINEERS.

Tracking pounds, pieces, and linear feet to analyze actual job progress.



## Sheet metal HVAC fabrication and installation for commercial and industrial construction.

Established in 1947, Climate Engineers has developed a reputation for providing high-quality custom sheet metal fabrications. With two locations, Cedar Rapids and Eldridge Iowa, they run multiple projects serving the commercial and industrial markets for more than 70 years, providing timely delivery of the ventilation/HVAC, ingredient, and material handling systems required by food, ethanol, and other processing plants. The combination of design, manufacturing, installation, and service ensures that Climate Engineers remains on the cutting edge in today's heating, ventilation, & air conditioning industry.

### Challenge.

Climate Engineers needed to accurately track the pounds installed on each project but were stuck with a manual and unreliable process. Climate Engineers wanted to move from manual tracking and takeoff to determine percent complete on a project. The current process required the field to highlight the drawings so project managers could determine a percentage of completion based on the highlighted paper.

This required a time-consuming re-work of the takeoff of everything that was highlighted. Also, as Climate Engineers purchased their spiral products, they only had an estimate of round parts. Using original takeoffs from project estimates and based on the highlighted items from the field, they would have to compare the highlighted drawing against the estimate to get a determination of the pounds installed. It was critical they find a process that could track more accurately and could replace their current manual process that was very time consuming, redundant, and unreliable.

*"There was a lot of "sketch equity. We highlighted the drawings and did an "eyeball" estimate of how much was completed."*

Corey Chestnut  
Project Manager  
Cedar Rapids



The new College of Pharmacy building  
296,000 square feet

## Solution.

Once Climate Engineers started to use ICT Tracker, they could perform an immediate comparative analysis. They now track four different metrics as opposed to pounds-only which is where they were before ICT Tracker. By also tracking pieces and linear feet, they can accomplish a comparative analysis vs pounds giving them an improved process to better forecast the current project and future of the install.

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*"When it is pounds only, everything looks great, but you know it's going to get worse, but by how much? When you have a comparative analysis, you can find the middle ground of "pounds are going great, but pieces and linear feet are lagging behind the estimate." I can work the actual progress of the job based on a median view of those metrics."*

Corey Chestnut, Project Manager, Cedar Rapids

*"ICT Tracker could have saved me a lot of headache, conversations with the foreman, printing out prints, etc. Sometimes there would be a week or two lapses by the time you got prints to him and he could highlight them and bring them back. That one job would have paid for ICT Tracker."*

Steven Goulder, Project Manager, Eldridge

## Results.

Training and implementing ICT Tracker went very quickly. When the main foreman started using ICT Tracker, reports were sent daily from the field within the first week. Climate Engineers uses BIM 360 to load all their submittals and drawings. As the field teams walk around with an iPad in their hands all day, ICT Tracker has proven to be another tool that immediately added value to their project workflow and was easy for them to pick up and immediately know how to use.

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*"What it comes down to is this. You simply get your percent complete in 15 minutes. That is all you need. There isn't a project manager out there that wouldn't prefer this over what they are doing currently."*

Corey Chestnut  
Project Manager  
Cedar Rapids

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Innovative Construction Technology (ICT) is an augmented reality (AR) software company that delivers innovative and empowering products to easily solve problems and transform the use of technology in the construction industry. ICT is built on knowledge through experience and the desire to foster authentic and genuine relationships by sharing the outcome in partnership with our customers.

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