

**ZOHO** Creator

# Building an emission management system for a better tomorrow using Zoho Creator



[www.gastrack.ca](http://www.gastrack.ca)

 **GAS TRACK**  
ENGINEERING



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# About Gas Track Engineering

**Gas Track Engineering**, founded in 2019, is an emission management company based out of Canada that tracks emissions from natural gas sources. They're a part of the oil and gas industry, specializing in **fugitive emission leak detection and management programs, emissions recordkeeping, land surveying, and optical gas and thermal imaging**. In 2019, when new regulations aimed at reducing greenhouse gas emissions were introduced, they saw an opportunity to establish a company that could track and manage these emissions.

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# Business Model

**Gas Track Engineering** is on a mission to build a foundation of trust and respect with their clients, empower teams to uphold the highest standard of project delivery, and provide a healthy environment for generations to come.

Gas Track Engineering collects data for their Fugitive Emissions Management Program (FEMP) using a custom mobile application and sends it to a cloud-based server. This data can then be accessed for analysis and report generation as a part of their methane emissions record keeping regime.

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## The **Process**

A typical day at Gas Track Engineering begins with the creation of a project in their Project Tracker app. A technician is dispatched to the field to collect data, scan a site, and look for gas leaks using optical gas imaging cameras. When they discover a leak, the technicians categorize it with a barcoded leak tag. Then they scan it with the app built on Zoho Creator. This automatically enters data into the app, pulls values from the Project Tracker, and populates relevant fields. Then the crew can filter from dropdown lists and other components based on the requirements.



Once they've completed the entry form, they can then generate work orders to remedy the leaking components in their office, giving the client a chance to fix them. As a result, they send them through an automated process that's essentially a record template known as a work order. Then the crew makes repairs based on this information.

Finally, at the end of the process, they write a report. Once the report is completed, the client can return to the application and retrieve their own data, as well as export it as needed.

## The Challenge



*It was right at the beginning of the organization when I knew that a big part of the emissions management programs was to have a solid database that can track all of these leaks, their repairs, and the amount of greenhouse gas emissions. I needed something reliable and accessible to our clients as well as our own internal team.*



**Jason Paziuk**

*President, Gas Track Engineering*





**Job tracking** - Creating a job tracking system was one of the company's major challenges. The need for a database to track all of their emission data was a significant issue to address—from access for entering data in the field to a variety of automated processes, such as notifications informing customers that they have active gas leaks.



**Mapping** - Mapping was a crucial component for Gas Track Engineering, since they wanted to create a job database with a visual map of where projects are located. This would enable everyone on the team to access it from their phones, tablets, and computers, and help seamlessly locate job sites via the app.



**Integration** - Another challenge was integration with other software via API calls, weather apps, and more. Tracking weather data, such as temperature and pressure, is part of the record keeping they do, which is why they wanted to integrate it with their analytics software to create dashboards more easily.



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## The **Discovery**

**Jason Paziuk**—president at Gas Track Engineering—hadn't used a low-code platform until his friend recommended it and suggested they might be a good alternative to traditional development. They pretty much had to start from scratch, which is how they discovered the world of low-code and Zoho Creator.

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*It was very early on in 2019 when I started working with Zoho products, and admittedly, it took me most of the year to become proficient the Deluge scripting and the capabilities of Zoho's products. I spent a good part of that year writing up all the code for our database system. As time went on, I just realized more and more what Zoho could provide, and what it could do for the company. I was actually very pleased to see how solid the database was and how secure it was.*



**Jason Paziuk**

*President, Gas Track Engineering*

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## The **Solution**

Right from the get-go, they've been using Zoho products for most of their operations. They've built an emission management system, project tracking app, and safety app using Zoho Creator. They're leveraging Creator for many things, particularly cloud databases, permission control for entering data in the field, automating processes, and exporting data, which can help them offer the right formats to the people who need the data.



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*We're a growing firm, and everybody works remotely. We have one of our engineers using the app pretty steadily to get data and generate reports. And for doing the calculations, we have two administrative people that use the app to create the work orders and make sure they're done properly and have all the right data in them. Then, of course, our field workers use the app more for the data entry. So the two main pillars would be the field and the office teams—those two departments in our firm rely on the apps built on Zoho Creator.*



**Jason Paziuk**

*President, Gas Track Engineering*

## Emission Management System

The company built the app primarily as a data collection tool, but they also needed a way to provide dashboards to their customers, so that they could access their data through customer portals. The field-based forms are available offline as well for their customers to access online at any time. With barcode and QR code scanners, their crew can walk around with their tablets or phones and collect any data in the field, as well as track the leaks they encounter.

Once they find leaks, they're quantifying the amount of greenhouse gas equivalent emissions and the total amount of the mass and volume of methane that's been leaked by these oil and gas facilities. The notifications are automatically generated through the app to inform the clients that they've got a leak, or multiple leaks, in their facilities. They've also built some powerful dashboards by integrating Zoho Creator with Zoho Analytics.

## Safety App

Gas Track Engineering track their entire safety program using the app they built on Zoho Creator. On a daily basis, the crew can fill out hazard assessments and incidents on these forms. They can see metrics such as the number of incidents or days without an incident, tracking the number of safety meetings that they've held, and more by using dashboards.



*Safety is a big part of the oil and gas industry. So that's a big component of our business where I rely on Zoho products to enhance our program and the health and safety of our employees.*



**Jason Paziuk**

President, Gas Track Engineering



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## Project Tracker

The company also has a project management system in place. When a customer calls for a job, they create a project in the Project Tracker, which is then linked to the other applications to retrieve data from the database.



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*One of the challenges was creating a job tracking system, so that was where I started. The next challenge was to develop a database for tracking all of our emission data, and Zoho was the perfect solution*



**Jason Paziuk**  
*President, Gas Track Engineering*

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*Zoho Creator proved to be very reliable, helpful, and solid for us, and our customers are happy to use it as well. They seem very impressed with what I could do with the dashboards especially.*



**Jason Paziuk**  
*President, Gas Track Engineering*

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## The **Benefits**



*Our customers are pretty impressed with the database and its ease of use, which allows them to reliably obtain and track their data when they need it. Our customer portal has been a real big benefit. We're getting compliments from our clients about it—and that's all because of Zoho.*



**Jason Paziuk**

*President, Gas Track Engineering*

Gas Track Engineering benefits from their Creator apps as they carry out their day-to-day operations, from data collection to tracking leaks and more. Here are some of the top benefits:

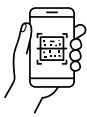


**Customer portals** - Customer portals allow Gas Track Engineering customers to use their dashboard to access their data. They currently have around 30 users accessing the portals.





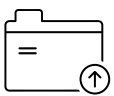
**Mapping** - Mapping features for reports helped them find job sites by creating a database with a visual map of where projects are located. It's accessible to the team from their phones, tablets, and computers. All they have to do is use the app whenever they need to locate a job site



**QR code** - QR codes is a very handy feature that allows the company to publish reports and make them accessible to everyone—even users that don't have a Zoho Creator license—so they can input data. Users can scan the code on leak tags to open up a data entry form and the data filled in will immediately go into the database.



**API calls** - Tracking weather data, such as temperature and pressure, is an important part of their leak detection process, and Gas Track Engineering implements this through integration via API calls.



**Video/file uploading** - Video and file uploading is helpful for accessing real-time data to identify and track leaks.



*We couldn't run the business or generate the revenue we're generating without a cloud database like Zoho. With Creator, last year, we increased revenues by 500% from the previous year—and all collected through Zoho. I've been able to hire and manage several staffs and a client database of about 30 customers through Zoho software.*



**Jason Paziuk**

*President, Gas Track Engineering*

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## The **Future**



*We're in the process of redesigning our website and we want to have a client portal that links right to the Zoho Creator database. We're going to be working on that soon.*



**Jason Paziuk**  
*President, Gas Track Engineering*

Gas Track Engineering will also be looking at a myriad of ways to collect data, including using drones with 360-degree cameras. As they take different images with this, they want to be able to integrate all of this data into their database effortlessly. When they walk through a large oil and gas complex with that 360-degree camera, they want to construct a model of that facility, with everything in a single database—presenting an aerial view with their drone imagery from above, and possibly even 3D modelling using laser scanners is in the pipeline as well.



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## About **Zoho Creator**

Zoho Creator is a low-code platform that enables organizations to build customizable apps from the ground up, with little to no coding. With over 25 years and 13,000+ customers globally, Zoho Creator empowers businesses of all sizes and across industries. All you have to do is sign up and get started right away!

### Top brands that use our platform:





[www.zoho.com/creator](http://www.zoho.com/creator)

We'd love to talk! Reach out to us:  
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