

# A leading manufacturer of electric cars and powertrains streamlined manufacturing processes and workflows with RPA in **Microsoft Power Automate & Power Apps**



## Background

The customer is a leading manufacturer of electric cars and electric powertrains and is in the process of accelerating its business by effective use of and implementation of latest information technologies.

## Business Challenge

The senior management of a leading electric car company was looking for ways to manage the complete manufacturing shop floor movement of parts to be assembled.

Once deployed in production, it will be a critical app in the manufacturing process. They were looking to implement it on priority as they were scaling their manufacturing facilities in the gigafactories.

The shop floor information **was maintained via spreadsheets** and the overall process was **very inefficient, leading to wasted man-hours and re-verification of shop floor movement**, leading to inconsistencies in assembly management.

The overall maintenance of the inventory relationship took a lot of work to maintain as the entire process was manual and prone to errors.

## WinWire Solution

The customer approached WinWire to solve their challenges using our **RPA capabilities** in strategic areas for process optimization and faster workflow to address their business inefficiencies.

- Conducted workshop with customer to understand the business flow and current technical implementation.
- Document the current issues with app and the priority items that needs to be taken up.
- Implemented the finalized features and fixed issues in the application.

- Performed unit testing and end-to-end system testing of the functionality in customer's environment.
- Configured the Azure DevOps pipelines for Dev, Test and Prod environments.
- Present work-in-progress demos to IT and business teams
- Coordinated user acceptance testing with customer's IT and business team and fix the identified issues.
- Configured deployment of application in customers dev/test/production environments using Azure DevOps CI/CD pipelines

## Technologies Used

Power Apps, Power Automate, Azure DevOps, Azure Project, Azure Web App, Azure SQL

## Business Value

- Driving high productivity and enhanced customer experience and optimized processes.
- Offered a unified view of the customer of the entire manufacturing process.
- Improved shop floor management for field engineers with accurate representation of inventory.
- Improved visibility of processes in fault finding and reporting during the assembling process.
- Built an extremely agile and extensible architecture.