



**NAME OF PROJECT:** Traceability and conformity system  
**FIELD:** Food Industry  
**LOCATION:** Laval  
**YEAR OF EXECUTION:** 2018-2019

**AREA OF EXPERTISE**



MES & Industrial Software

**SERVICES PROVIDED**



Software

**CONTEXT**

Our customer wanted an application to allow them to improve the gathering of information about the quality and traceability of their products. With the information previously being gathered manually on a paper form then being entered manually into an Excel sheet, maintaining good quality information was a constant challenge. The application that we designed integrates perfectly into the management system for the packaging lines, receiving commands from the ERP that we also created.

**MANDATE**

PCI's mandate was to analyze the customer's needs, program the application and deploy the software in the production environment.

**PCI PERFORMED THE FOLLOWING TASKS**

- Analyze the customer's needs.
- Modelize the data and integrate the new tables into the customer's existing databases.
- Program the data entry screens that could rapidly and easily be used by the operators, using touch screen displays and bar code readers.

**SOLUTIONS DEPLOYED BY PCI**

- The new software module was integrated directly into the existing packaging line operator control stations, allowing the operators to rapidly enter the pertinent production data into the data collection system.
- The new system uses web-based technologies, which means it can be used by any authorized user from any computer in the plant.
- The system allows the plant to have historical data that can be used to easily produce the reports required by the Canadian food safety laws.

**TOOLS AND METHODS USED**

- Programming using HTML and JavaScript (NodeJS & AngularJS)
- Microsoft SQL Server & SSRS
- Kepware IoT (to allow communication with the PLCs)

**5 SIMILAR PROJECTS UNDERTAKEN**

Client	Project Name	Year	Status
Client 1	Project 1	2018	Completed
Client 2	Project 2	2019	Completed
Client 3	Project 3	2020	Completed
Client 4	Project 4	2021	Completed
Client 5	Project 5	2022	Completed