MAJiK SYSTEMS

COMPANY OVERVIEW

Seeing the trouble that manufacturers have with data, four engineering students from the University of Waterloo decided to create a software platform that documents real-time manufacturing data as part of their 4th-year project. Working from their living rooms after class, the school project quickly turned into a full-time business called MAJiK Systems. Since those humble beginnings, MAJiK has grown its operation, hiring 10 full-time employees and getting numerous clients across North America. Some clients include major manufacturing companies such as Dare Foods and Mother Parkers Tea and Coffee.

LOCATION: KITCHENER, ON

TECHNOLOGY

Internet of Things

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YOU CAN'T IMPROVE WHAT YOU DON'T MEASURE

The need for data in factories is crucial. Manufacturing is a complex world filled not only with complicated machines but hours of spreadsheet analysis and process optimization. Managers are always looking for ways to improve factory production while decreasing manufacturing costs. In order to improve, the manufacturer needs the data to take action. However, this data seems to be a scarce resource only coming in once a day on average. With this twenty-four-hour old data, manufacturers can't respond to changing conditions fast enough to counteract workday production slowdowns, shipping delays, decreased efficacy and higher costs of production.

BRIDGING THE MANUFACTURING DATA GAP

MAJiK was created as a software platform that connects directly to factory machines and capital equipment to monitor, analyze, and optimize operations. The system works by retrieving real-time data from the machines for managers to analyze. In turn, the managers can see how well production is running. They can then optimize performances throughout the factory making sure that they're able to respond to any changing conditions that cause production slowdowns, shipping delays or other inefficiencies.

ON-PREMISE TO THE CLOUD

Currently, MAJiK Systems has been deploying its platform on a customer-based premise (installing the MAJiK software on the client's computers and servers). As MAJiK continues to grow its customer base, delivering their product on-premise becomes more challenging and expensive, as it requires custom on-location monitoring, support, and updates.To expand their customer growth without increasing costs in time and money or sacrificing the quality of service, MAJiK leveraged a CENGN project to successfully validate their traditionally on-premise solution as a scalable multi-tenant cloud-based solution (hosted on vendor servers and accessed by their customers through a web browser).

> "Over the course of 2 months, we had access to the platform where we could scale without hitting any infrastructure bounds, allowing us to focus on scaling the application."
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> **Kamal Aman, CTO, MAJiK Systems**