

CIO Review

The Navigator for Enterprise Solutions

MANUFACTURING TECH SPECIAL

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20 Most Promising Manufacturing Tech Solution Providers 2015

As the insatiable urge for newer products is increasingly becoming a consumer trend, manufacturers are searching for new ways to increase agility and reinvent strategies. Operational efficiency, speed, and the ability to keep a track on the current as well as future market trends are now a top priority for manufacturers. In such a scenario, they are finding silver lining in the latest technologies that are not only helping them in gaining new opportunities but also in bringing innovative products.

As the manufacturing industry is eagerly embracing this transformation, the technologies such as 3D printing and Internet of Things are becoming a common sight even in SMBs. These technologies are benefitting manufacturers not only on the production floors but also in the entire production-to-market processes.

To help organizations find the best-of-breed manufacturing solutions that suits their business needs, in this issue of CIO Review, we present the 20 Most Promising Manufacturing Technology Solution Providers, featuring the best vendors offering technologies and services that aid in manufacturing processes. The firms featured in this issue have exhibited vast knowledge and in-depth expertise in delivering manufacturing related solutions.

A distinguished panel comprising of CEOs, CIOs, analysts, and the CIO Review editorial board has selected the top players from the competitive field of manufacturing solutions. The listing provides a look into how these solutions work in the real world, so that you can gain a comprehensive understanding of what technologies are available, which are right for you, and how they shape up against the competition.



Company:
 Integration Objects,

Description:
 Integration Objects is a systems integrator and solutions provider specialized in operations and manufacturing technology.

Key Person:
 Samy Achour,
 President and Founder

Website:
www.integrationobjects.com

Integration Objects Empowering Operations for Increased Manufacturing Output and Efficiency

With the increasing client requests for products, services and offerings, manufacturers are vying for a productive working model which can consolidate the most recent advancements to bring in customer satisfaction. However, to remain economically viable and have an effective business process, the manufacturing sector has to meet many challenges such as cost of operations, managing unplanned events and retaining knowledge of the resources. “More importantly, the real challenge lies in quickly addressing or predicting process disturbances or abnormal conditions that propagate many other issues such as broken schedule, quality, production, energy consumption, asset protection, and consequently profitability,” begins Samy Achour, President and Founder, Integration Objects. Headquartered in, Houston, TX, Integration Objects addresses such issues through its analytical application that takes in large amounts of historical manufacturing data and automatically extracts knowledge from it to have an in-depth understanding of the processes and operations, and execute that knowledge in real time to empower operations with decision making.

Integrations Objects’s analytical platform, ‘KnowledgeNet Analytics’ and

its suite of products, allows to model knowledge in the form of complex and abnormal event detection, expert rules, performance computation, advanced analytical and regression models and workflows to represent best practices, and deploy them online. “Also, KnowledgeNet allows to use the existing knowledge to tie the dots together, and empower end-users to make faster, accurate and more informed decisions, that positively impact the bottom line,” says Samy Achour.

In addition, Integration Objects’ OPC tunneling solution protects process control and industrial networks against any non-authorized applications and users as well as malicious attacks. “It allows to carry process data for enterprise applications with the guarantee of data integrity,” says Samy Achour.

Integration Objects advanced solutions cover a wide range of Manufacturing Operational Management (MOM) applications. The applications focus on key issues that can impact safety and production. Users—from operators in the control room to senior management, interact with Integration Objects’ applications through graphical dashboards that notify any forecasted or detected drop in operations performance, along with the root cause of the problem and recommendation of correction action. “KnowledgeNet specially allows users a significant reduction of the cycle time to detect and diagnose a specific problem and the added value will maximize the cost effectiveness of any operations,” says Samy Achour.

Integration Objects has served its clients in a big way to solve complex issues with its unique and powerful products portfolio. In one instance, the customers in a refinery facility had started facing problems during transition

modes such as change of grade, start up and shutdowns, longer time to diagnose process disturbances, overconsumption of expansive raw material and at times, unplanned shutdowns. “In fact, their problems grew significantly when some of their most senior operators retired,” states Samy Achour. Ever since Integration Objects deployed its systems, the refinery facility did not have a single plant shutdown, or production slowdown.

“KnowledgeNet specially provides significant reduction of the cycle time to detect and diagnose a specific problem and the added value maximizes the cost effectiveness of any operations”

Maintaining their focus on serving the manufacturing sector, Integration Objects has developed a deep understanding of the needs and challenges of this industry. The company has packaged its technology to be deployed in a very short time. “Infact, our software products have been designed such that it is very simple to implement without the need of having a systems or software engineer,” says Samy Achour.

Moving Forward, Integration Objects is investing primarily in developing vertical applications that can address specific customer’s problems with high return on investment. “We are in the process of designing and developing a machine learning technology that will be a breakthrough in the manufacturing world,” concludes Samy Achour. CR

