PEAK42

Industry 4.0 Adoption

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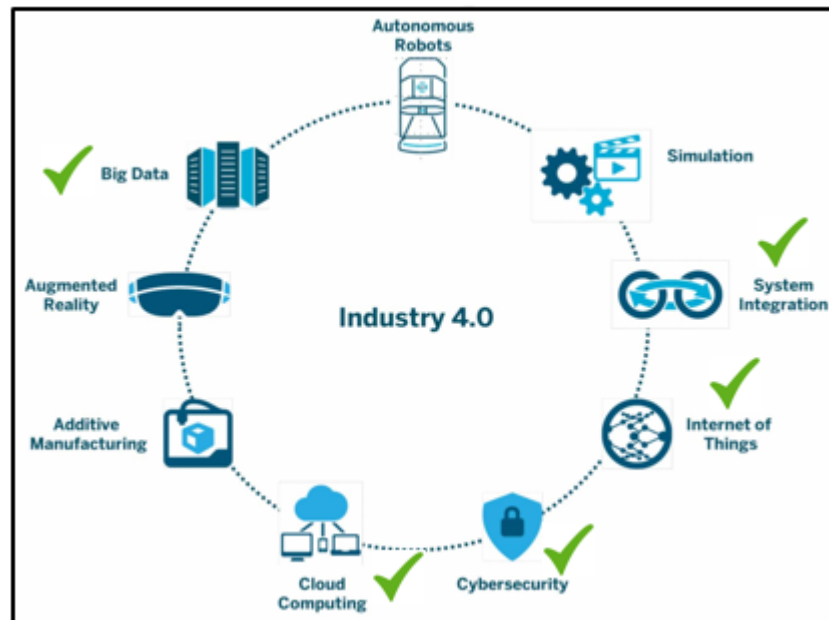
Systems Integration   Consultancy   Performance Management

PEAK42

Peak42 are leading Industry 4.0 initiatives with track record in:

- Cloud Technology Solutions
- Internet of Things (IT/OT Integration)
- Cybersecurity (Industrial Networking and IT/OT)
- Big Data (Operational Intelligence and Manufacturing Analytics)
- System Integration (MES, OEE, Batch Execution)

Systems
Integration

a-Industry 4.0 – Cybersecurity

Peak42 is delivering project and consultancy assignments, addressing industrial Cybersecurity issues. Within the context of Industry 4.0, our specific area of expertise is in overall safe design of Control Architectures and the Integration of IT and OT technologies using S95 and Demilitarised Zones for common services between the Business network (IT) and Manufacturing Network (OT).

Case Study and evidence of implementation:

- 5892-016 OT Network FEED – consultancy output for secure corporate wide IT / OT integration
- 9001-0xx Cyber Security and Thinclients – Confidential Client deploying secure architecture and thin client technology using ACP ThinManager
- 9001-0xx Industrial Network Case Study – Large corporate where Peak42 undertook a turnkey implementation of Industrial Network, S95, IT/OT Integration to support a "smart-factory /Digitalization" project

b-Safety

Peak42 provides Functional/Machine Safety as part of the control system delivery. Supported by TUV certified engineers, and automation specialists in the areas of Safety programming, our control systems include Safety PLCs from Rockwell and Siemens. Our capability includes the design (Safety Requirement Specifications), SISTEMA/PASCAL Calculation, Safety Programming and installation/commissioning.

Attached case studies and supporting evidence of work performed in these areas:

- 5335b024 SRS -New Sodium Bicarbonate Facility: Design output for a large Chemical Project
- Control system Architecture for a large Rockwell based project inclusive of distributed Safety

Systems Integration

c-Industry 4.0 - Big Data Analytics

Peak42 has delivered site wide schemes with Big Data analytics using a combination of Operational Intelligence and Business Intelligence (i.e. : Tableau).

 Recent project is the collection of energy metering data using networks of Siemens PLCs, summarised in a Data Warehouse using contextual data to allow in depth analysis and dashboarding.

Attached Video Demo and white paper on Analytics to support the above

d- Industry 4.0 – Cloud Services and IoT

Peak42 has worked in collaboration with Siemens and Hosokawa (Pharmaceutical process manufacturer) to develop a process control system inclusive of edge and cloud technology.

Siemens Mindshpere, currently at the fore front of Industrial cloud platform was used to provide the cloud

"MindSphere is an open cloud platform or "IoT operating system" developed by Siemens for applications in the context of the Internet of Things. MindSphere stores operational data and makes it accessible through digital applications to allow industrial customers to make decisions based on valuable factual information"

This first of its kind initiative attracted specialised press releases and award entry

 Peak42/Siemens/Hosokawa finalist Chemicals North West Award (2018)

We help our customers to save money and increase performance in the area of process and plant automation. We do this through the unique combination of Systems Integration, Consultancy and Performance Management (Industry 4.0) services using our team of control system experts.

Our customers include major companies in the Pharmaceutical, Utility, Food, Nuclear and Chemical sectors and also R&D companies who recognise our ability to listen to their needs. If you are interested to find how this could benefit you or your customers, please visit www.peak42.com or contact Michael Thomas (mthomas@peak42.com)

Systems Integration