

*Industrial Automation Engineer, California
2013*

Harry Coffey

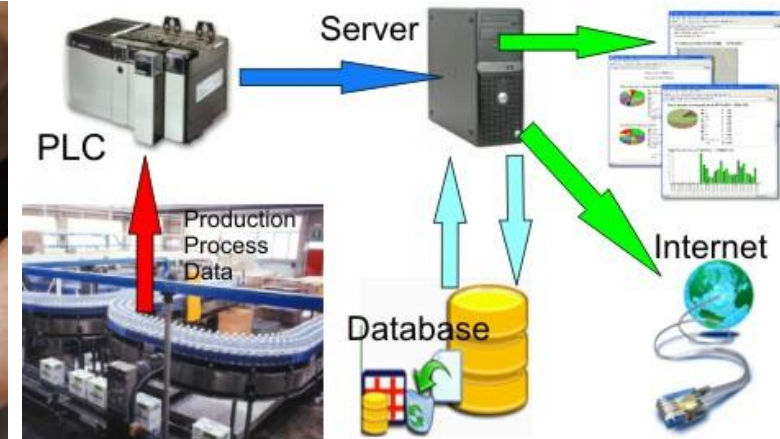
About Me

- BSc Sustainable Energy Management – Limerick Institute of Technology 2011
- Automation/Controls/Instrumentation Engineer since 2012 starting in water-wastewater treatment, moved recently into biopharmaceuticals



Skilled in:

- SCADA development & deployment
- PLC programming & commissioning
- IP Networking within industrial environments



Contact Me

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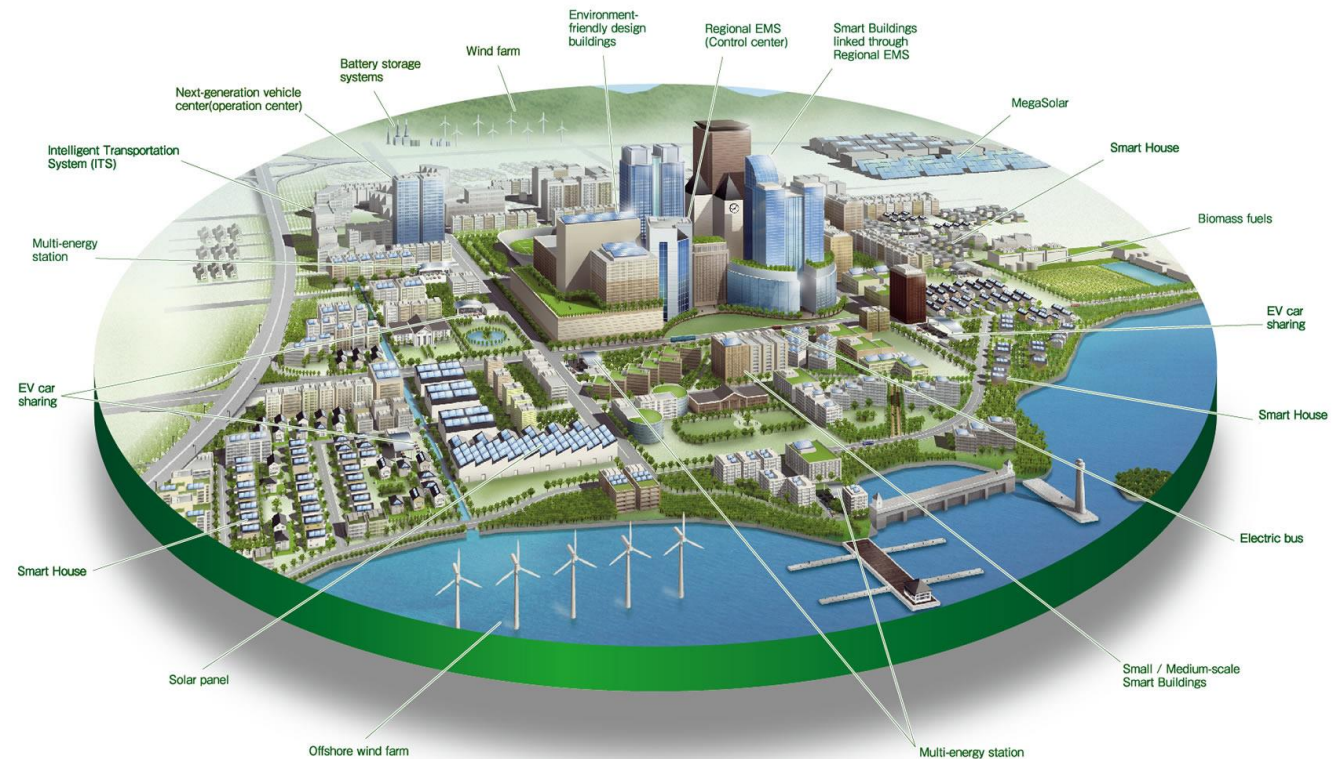
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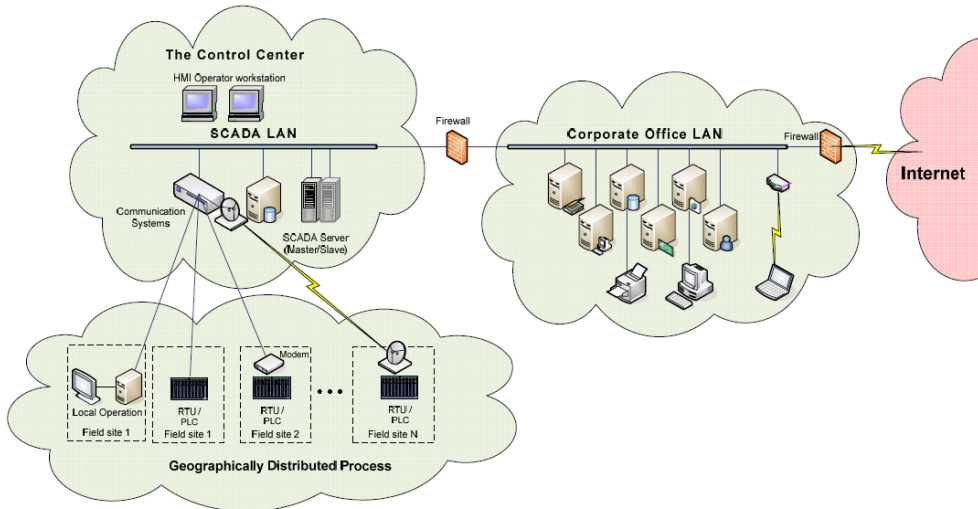
- Working within industrial automation, now seeing more technology common to factory floors for decades increasingly appearing in everyday life
- Keen follower of developments in the Internet of Things (IoT) and Big Data, especially on how these will impact society and play a key role in future Smart Cities.

What I hope to gain from the course

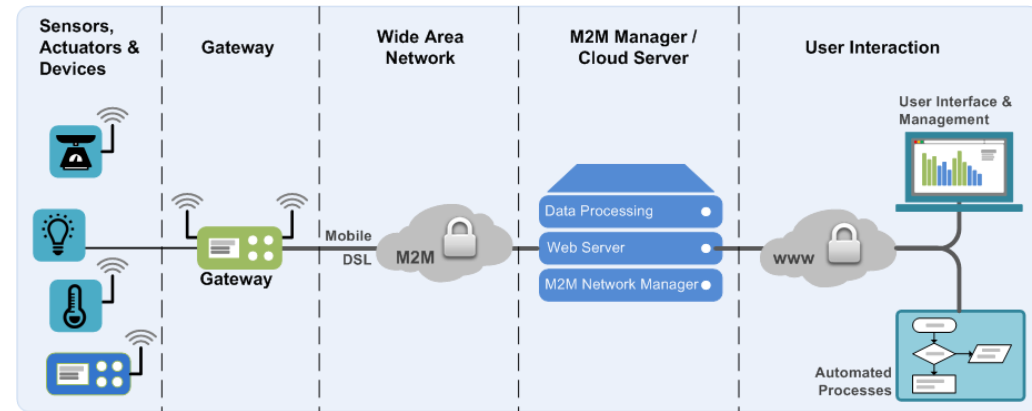
To gain a solid understanding of IT in Architecture, Engineering and Construction that will enable me to become knowledgeable in the development and operation of smart sustainable IT solutions across civil infrastructure



The Road to Enterprise/Industrial-IOT



Industrial SCADA Network



IoT Architecture - © Neratec

“Interoperability standardization is a challenge for new IoT devices that need to interface with systems already deployed and operating. This is relevant to many industry specific and application specific environments that have established networks of devices. Industrial SCADA is a legacy example of this.”

IoT engineers are faced with design trade offs to maintain compatibility with legacy systems while still trying to achieve greater interoperability with other devices through the use of standards.”



The key to success is interoperability and working toward a common standard.

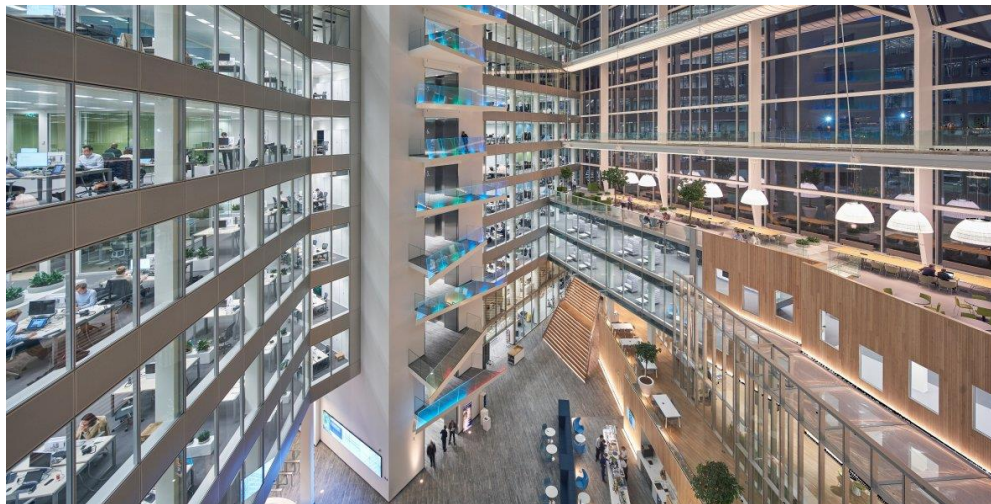
Proposed Study

Aim:

- Identify barriers to wider adoption of IoT technologies for enhancing the operational lifecycle of a building and propose best practice for implementation.

Methodology:

- Literature review on contemporary building operations, existing management systems such as BMS, IoT technology use in building operations currently.
- A case study on an existing commercial or industrial building with legacy BMS and with scope for introduction of new or modification of existing ITC infrastructure to support a scalable IoT centric operation.
- Conclusion on what are the barriers to wider adoption and recommendation on most effective solution for to enable the building's operation to integrate IoT effectively.



The Edge – Smart Building, Amsterdam