

Smart Platform for Sensor Network System

Markson & Tommy April 2020



Agenda

Background

Case Study



Agenda

Background

Case Study

IoT Administration Platform Sensor Monitoring Status

Job Performance Analysis Report Download



Background



• To Develop an Easy to Use **Smart** Platform for Sensor Network System among existing and aged machines.

* hkp:

Background

The Data Collection Process of Traditional Industries

Production Start

Labour to log down the data on data sheet

Waiting for batch of data being collected

Problem: Human error Delay of data

Data entry clerk to input the data into system

Finish the data collection process



Background





Background



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Background



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Counter Against Time



Timeline



Counter Against Time



Counter Accumulated and Occurrence





Counter Against Time



Counter Accumulated and Occurrence













Timeline







Temperature – Median, UCL & LCL



Timeline



91.4%





IoT Administration Platform



USER

Admin Platform

- Dashboard for summarise overall information
- User can input the production information
- Analysis the production period of the temperature, counter, energy or fuel consumption
- Export formatted report
- Manage the sensor

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HKPC ADMIN			
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Sensor Monitoring Status

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Alert

HKPC ADMIN

🛔 User

🚯 Dashboard

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Report Download

1200

Included detail formula with value



Report 1 – Performance report

	А	В	С	D	E	F	G	н	1
1	token	device	type	time	val	power	dc_percer	ip	dt
2	c8c93e74964cd0de4fc7f1acc87f19be4e74d417	Dev27	count	2020-02-2	120	DC	79	192.168.0.	26/2/2020 0:00
3	ec1f4473d32a923f42ba95942042296b8d0e239f	Dev27	temperature	2020-02-2	29	DC	79	192.168.0.	26/2/2020 0:00
4	3b0beab4f154dff2f280a8dce70bb3f80dfc168a	Dev27	count	2020-02-2	109	DC	79	192.168.0.	26/2/2020 0:00
5	c069f3c0bd5e000f25cda5c05a1ddf2b7069c55d	Dev27	temperature	2020-02-2	18	DC	79	192.168.0.	26/2/2020 0:00
6	3d2ff33dda49a09c12d490a5410ce0e5895e87cd	Dev27	count	2020-02-2	141	DC	79	192.168.0.	26/2/2020 0:00
7	f3c71cd227e1178d77e000ead0b66a2c6ab31634	Dev27	temperature	2020-02-2	32	DC	79	192.168.0.	26/2/2020 0:00
8	9d6a41fb3bd35e22533a82d38e14f847d409f577	Dev27	count	2020-02-2	52	DC	79	192.168.0.	26/2/2020 0:00
9	56df9e6b4d69c5bd2a7f9e212cbbc91d9fa1a96e	Dev27	temperature	2020-02-2	26	DC	79	192.168.0.	26/2/2020 0:00
10	6f68c10c236341f1befc668cd93997f2a821d5da	Dev27	count	2020-02-2	121	DC	79	192.168.0.	26/2/2020 0:00

Report 2 – Raw data report

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Search	Job	Sensor Type		Start Date	End Date
🚯 Dashboard	Printing Job XXXX	All sensor	•		
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Push Industry 4.0 towards new boundaries
 Innovate on cutting-edge technology on a global stage

Transformation from OEM to OBM **O**riginal **D**esign **M**anufacturing

Original Equipment Manufacturing

Production

of components or products



Design and Engineering based on customer requirement





Branding and Innovation of own products and services

Reindustrialisation of Hong Kong



天考察團

5G Training



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深圳體驗



(5G











Smart Innovation Leadership Certification Program







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