**I will report what I have done by the end of each week and meet around every 3 week for discussion.**

**GitHub:** <https://github.com/ypleungaa/Works>

(As the repository has set to be private, please accept the invitation on the separated email before access to it, thanks)

**Main Research:**

* To build a virtual control room and demonstrate how construction project can make use of the control room concept with the sensor data and the BIM model for making decision on scheduling, data management, analysis, BI and even automation.
* Visualise the BIM model with the sensor data in an online web application and VR/AR application to make it accessible anytime and everywhere

**More will be investigated on:**

* Evaluate what types of sensor data should be captured to improve the construction site such as health and safety of working environment and project planning
* Investigate the workflow to enhance collaboration, make decision based on the digital twin

**Schedule written on 14 June 2020**

**June:**

Get the basic skills of using the software (BIM360, Revit, Forge, Power BI)

Connect the Sensor Raspberry PI with Azure Cloud Service and link to model in BIM360

Produce preliminary results to prove the concept,

Draw the BIM model of the factory

Produce the web-viewer link

Complete of writing of Introduction + part of Literature Review

**July:** *(Will be updated again later)*

Set-up sensor in the Factory

Evaluation based on:

* Lesson learnt from the factory protype
* types of sensor data should be used for visualization, what benefit can be achieved
* How to make ppl aware of the data when they go inside
* workflow to simplify the process

**Aug:** *(Will be updated again later)*

Keep on Evaluation + Writing