

**Student Details**

Internship Company	LLA Arkitek (Penang)
Student Full Name	Ong Ker Sin
Stu.No	0321719
Home Address	23, Jalan Desa Palma 2, Taman Desa Palma, 14000 Bukit Mertajam, Pulau Pinang.
Phone No. Home	-
Phone No. Mobile	+6012-5263713
VoIP Software (Skype) / Overseas No.	kersinong
Email	<a href="mailto:kersinong@hotmail.com">kersinong@hotmail.com</a>

Taylor's University  
Lakeside Campus  
No.1  
Jalan Taylor's PJ 7/13  
47500 Subang Selangor  
Malaysia



School of Architecture, Building &amp; Design

**Lecturer Details**

Location	Name	Email	Office No.
<b>East Malaysia Region</b>			
Sarawak	Ian Ng	<a href="mailto:AikSoon.Ng@taylors.edu.my">AikSoon.Ng@taylors.edu.my</a>	603-5629 5000
Sabah	Ian Ng	<a href="mailto:AikSoon.Ng@taylors.edu.my">AikSoon.Ng@taylors.edu.my</a>	603-5629 5000
<b>West Malaysia Region</b>			
North: Ipoh, Kedah, Penang	Keith Tan Kay Hin	<a href="mailto:KeithKayhin.Tan@taylors.edu.my">KeithKayhin.Tan@taylors.edu.my</a>	603-5629 5252
South: Malacca, Johor	Angus Lee Ching Hua	<a href="mailto:ChingHua.Lee@taylors.edu.my">ChingHua.Lee@taylors.edu.my</a>	603-5629 5251
Selangor	Sujatavani Gunasagaran Tamil Salvi Mari Sateerah Hassan Siti Balkish Roslan	<a href="mailto:Sujatavani.Gunasagaran@taylors.edu.my">Sujatavani.Gunasagaran@taylors.edu.my</a> <a href="mailto:TamilSalvi.Mari@taylors.edu.my">TamilSalvi.Mari@taylors.edu.my</a> <a href="mailto:Sateerah.Hassan@taylors.edu.my">Sateerah.Hassan@taylors.edu.my</a> <a href="mailto:SitiBalkish.Roslan@taylors.edu.my">SitiBalkish.Roslan@taylors.edu.my</a>	603-5629 5624 603-5629 5000 603-5629 5620 603-5629 5000
Kuala Lumpur	Prince Favis Isip Siti Balkish Roslan Zahari Zubir Sateerah Hassan Ian Ng Aik Soon Keith Tan	<a href="mailto:PrinceFavis.Isip@taylors.edu.my">PrinceFavis.Isip@taylors.edu.my</a> <a href="mailto:SitiBalkish.Roslan@taylors.edu.my">SitiBalkish.Roslan@taylors.edu.my</a> <a href="mailto:Zahari.Zubir@taylors.edu.my">Zahari.Zubir@taylors.edu.my</a> <a href="mailto:Sateerah.Hassan@taylors.edu.my">Sateerah.Hassan@taylors.edu.my</a> <a href="mailto:AikSoon.Ng@taylors.edu.my">AikSoon.Ng@taylors.edu.my</a> <a href="mailto:KeithKayhin.tan@taylors.edu.my">KeithKayhin.tan@taylors.edu.my</a>	603-5629 5395 603-5629 5000 603-5629 5000 603-5629 5620 603-5629 5000 603-5629 5252
Overseas (Skype)	Brunei, Iran, Oman, Mauritius, Maldives, Sri Lanka	Prince Favis Isip	<a href="mailto:PrinceFavis.Isip@taylors.edu.my">PrinceFavis.Isip@taylors.edu.my</a>
Overseas (Skype/Visitation)	Taiwan, China, Japan	Angus Lee Ching Hua	<a href="mailto:ChingHua.Lee@taylors.edu.my">ChingHua.Lee@taylors.edu.my</a>

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## 1.0 Summary

I have carried out my internship training in the LLA Arkitek (Penang) from 3<sup>rd</sup> January 2017 to 10<sup>th</sup> March 2017. During the process, I have got the opportunity to learn different knowledge and skills from all those great colleagues and architects in this company. In addition, I am so honored that I have the chance to finally meet the well-known conservation architect in Malaysia, and he taught and shared many of his experiences in conserving the heritage buildings with us. With this experience, my passion and knowledge in conserving the heritage buildings have increased. In addition, during this process of internship training, I have been involved mostly in proposing designs for different assigned projects. Besides, I have been assigned to attend different site meetings as well as defect meetings on site during my internship period in this company.

## 2.0 Design Proposal for Adaptive Reuse at Jalan C.Y. Choy

### 2.1 Schematic Design



Figure 2.1.1: 4 shop houses located at Jalan C.Y. Choy.

In this project, I was assigned to propose ideas and designs for the adaptive reuse of four shop houses located at Jalan C.Y. Choy, Georgetown, Penang (Figure 2.1.1). Before I started the design for this adaptive reuse, I have been taught by my colleague that all the buildings and sites within World Heritage Site (WHS) are subjected to the Guidelines for the Conservation Areas and Heritage Buildings, covering all aspects of conservation works as well as all compatible developments within the WHS. Therefore, these four shop houses in this project fall into the Category II buildings where the façade, external walls as well as the roof have to be conserved. In addition, this site is located out of the buffer zone in which there is no height limit restricted to the new built up design, however there is a plot ratio of 1:4 that has to be complied in this project.



Figure 2.1.2: Site plan (NTS).

I was able to calculate the allowable built up area by using the footprint of the site and the built up area of the existing buildings. From this calculation, I was able to estimate the number of floors that can be achieved within this site. Before starting the design proposal, I also had the chance to go for a site visit with my colleagues, so that I can understand more about the site and its context. In this project, the main concept requested by the client to be introduced in the design is the local cycling culture in response with the context on site.

To achieve homogenous activity pattern on site, my colleagues and I have discussed to introduce different varieties of programs and activities into the site to make it as a “mixed hub” suitable for different user groups such as the cyclists as well as the locals in which most of them are the retired groups and working communities.

In addition, I have been involved in the proposal of the integration of the cycling concept with the idea of “urban farming” as both of concepts suit the idea of “healthy living” to create sustainable architecture. As a result, I have been assigned to explore and search on different urban farming practices and elements in Malaysia as well as worldwide. With this opportunity, I got to understand more about the techniques, systems as well as the elements that are applied in the practice of urban farming. Moreover, during this process, I have been taught about the importance of designing sustainable architecture to reduce the impact to our environment.

During this design process, I have been exploring the ideas on different program mappings and spatial arrangements of the design using my sketching skill as well as the massing exploration through SketchUp. At the end of my internship training, I have involved in some feasibility studies of some details for example the calculation of the estimated construction costs, renovation costs to get the gross yield from the design that we have proposed.

### 3.0 Precinct Plan For Site Bounded by Weld Quay/ Victoria Street/ Beach Street/ Market Street

#### 3.1 Schematic Design

In this project, I was assigned mainly to produce different diagrams that tell the history on site as well as the concept of the design in this project (Figure 3.1.1, 2, 3, 4). I managed to apply my sketching skill to produce diagrams that bring up the stories behind them.

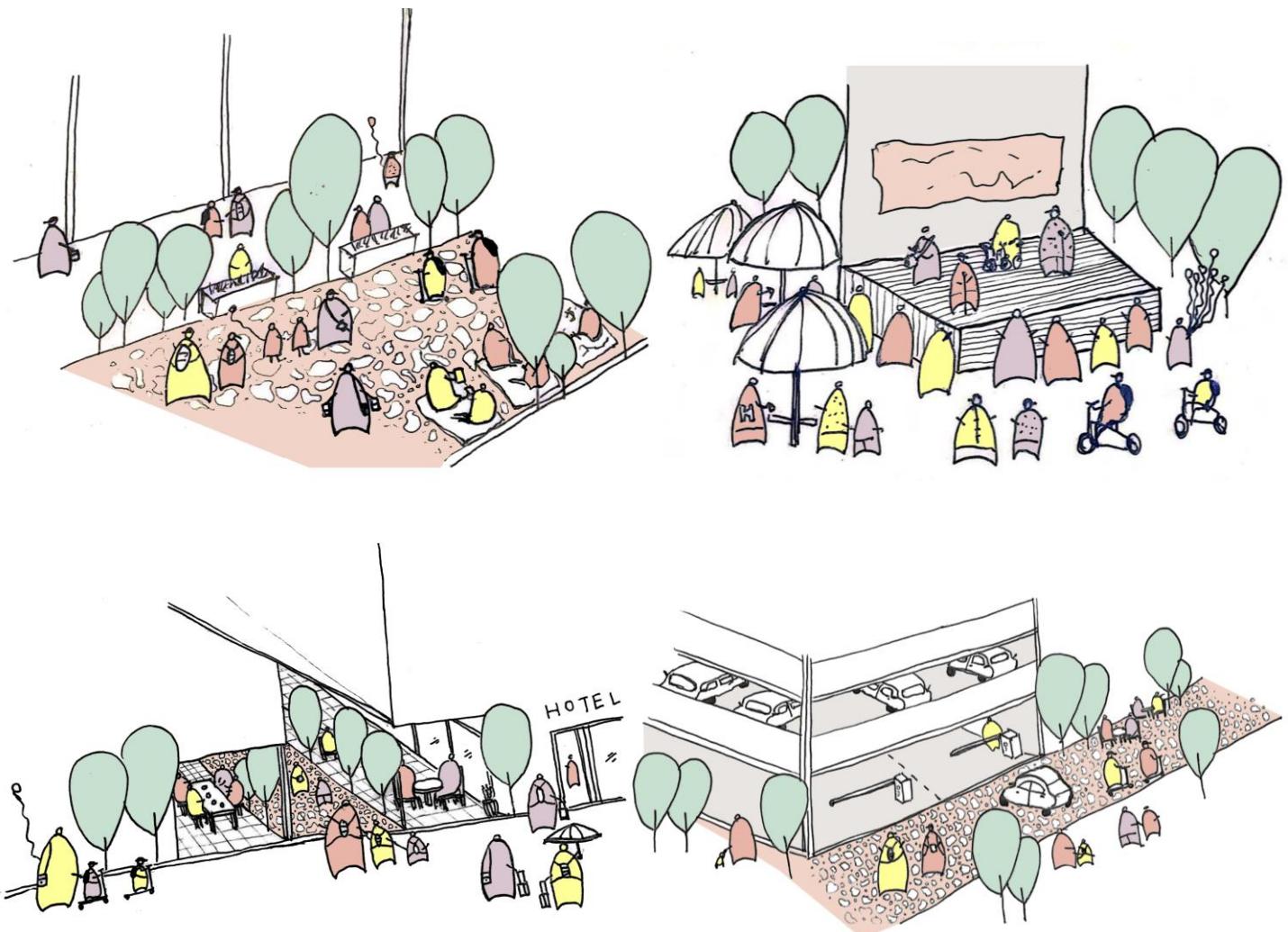


Figure 3.1.1, 2, 3, 4: Examples of sketches for concept diagrams.

In addition, I have explored another method to tell the stories in a more creative way by creating GIF from my sketches with the help of a software named “GIF Animator” (Figure 3.1.5, 6). All the sketches and GIFs produced are included into the presentation for the client of this project.



Figure 3.1.5, 6: GIF Animator used to create the GIFs.

### 3.0 Defect Meetings in U.A.B Building

Other than taking part in the design process of different assigned projects, I was assigned to attend several defect meetings held in U.A.B Building with my colleagues as well. I was attending these meetings with my colleague as the consultant of the project in which we have the role to consult the client and give instructions to the respective contractor regarding the defect items found. I was taught that the effective period for the contractors to execute their works is within 18 months after the completion of the building. In this assigned task, I was able to apply my management skill to give instructions on the defect items to be executed by respective contractors after discussing with my colleague. In addition, I was taught that, in the case that the performance of the contractor is bad, the consultant has the right to send warning letters or even bring in third party to carry out the defect works and all costs will be reduced from the retention sum.

### 4.0 3D Printer Presentation

During my internship training in LLA Arkitek, I had the chance to attend a presentation by the supplier of the 3D printer with my colleagues. During this presentation, I learnt about different types of 3D printers where the dimensions and the quality of works are different accordingly. In addition, the presentation by the supplier also talked about different materials that can be used such as NYLON and ABS. Also, the colors, quality of works as if the model is to be solid or hollow, can be adjusted using the 3D printer as well. It is such a pleasure to attend this presentation that I learnt a lot in which I might not get the chance to understand about the 3D printer out there.

## 5.0 Aware Of Local Authorities

During my internship training, I was taught about some of the local authorities such as the Bomba Department, JKR, JPJ, MPPP and also the Heritage Department that are involved in permit application. Besides, I learnt about some of the rules and regulations by different authorities from my colleagues as well that help me to understand more about the process of the application.

## 6.0 Conclusion

I have gained a lot of knowledge from the colleagues and architects during these two months of internship training in LLA Arkitek. Although the period is considered as short, but it is a good opportunity for me to get involved in the real architecture world and learn more than what we can learn from schools. I truly appreciate and thank LLA Arkitek for all the guidance.

