

電腦動畫學士學位學程 產學案《未來宅急便》 獲第 56 屆金鐘獎最佳動畫節目獎

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大約 10 年前，我與 Studio2 動畫公司有過短暫的合作，直到 2019 年 9 月初，該公司製片來信，詢問我能否協助製作 3D 動畫電視影集分鏡腳本與動態分鏡(Storyboard and Animatic)，每集 11 分鐘，總共兩季 26 集，因此再度開啟與該公司的合作契機。由於製作時間非常緊迫，當時第一屆動畫學程的學生剛升四年級，正好藉此機會檢驗學生三年來的學習成果，也可協助該公司緩解製作進度的壓力。於是我挑選 12 名合適的學生，2 人一組，負責 1 集分鏡設計與繪製，就此，本學程大二至大四共三班學生陸續參與《未來宅急便》前期與中期的製作。



第 56 屆金鐘獎最佳動畫片邱立偉導演(後排左一)與動畫學程師生團隊合影
The 56th Golden Bell Awards - with Director Chiu Li-Wei (second row, first from left).

此產學案是本學程自 2016 年成立以來，橫跨動畫製作領域的代表作，大致分為三大階段：前期企劃為分鏡腳本設計、3D 角色動態表演(Animation)、2D 部分角色表演及特效繪製。分鏡腳本設計是動畫影片製作之鑰，講求的是影像創作、運鏡設計、繪圖技巧、表演指示、鏡頭下的透視，以及鏡頭時間節奏的設定等要素和專業能力。我當然會擔心學生無法達成這些專業的要求，所以先接 11 集的工作量，帶著學生全力以赴。歷經近 7 個月的製作，很感謝邱立偉導演耐心教導學生此系列影片運鏡的設計與需求，雖然學生在停修課程中學習磨練，卻也如期順利完成這項任務，獲得導演和動畫公司的信任，衍生出下一階段的製作合作，即 3D 角色表演製作。

分鏡腳本確定後，時間進入 2020 年 4 月，接下來是密集的製作工程，進程同樣緊迫，需要更多的 3D Animation 人才協助消化工作量。我推薦本學程陳奕辰老師帶領數名大四學生，接手 1 集 11 分鐘的工作，耗時約 2 個月順利完成。2020 年 8 月，26 集系列影片進入中期製作尾聲，每集都需要製作大量的 2D 動畫特效，基於前兩階段的順利合作及公司方的信任，我安排大二至大四約二班學生，通力執行共 24 集的 2D 動畫及特效繪製，於 2021 年 4 月完成。

以上三階段的產學合作，費時近 2 年，在本學程二位老師的帶領下，經歷三屆學生共同締造佳績。學生除了真正實習實作、賺取工讀金，也能幫助業界消化產能，可說一舉數得。然而最重要的是專業學習，學生學習如何配合並達到公司技術面的品質要求，體認團隊合作、相互協調的重要性，學會時間管理與調整進度觀念等，每一階段各個環節都必須做到完美，以獲得公司方的肯定與信任，自然賦予更多的工作機會，亦能發揮產學合作的最佳效益。



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	110	05:15	3	03:00		111	01:15	1	01:15		112	01:15	1	01:15
Dialog 八戒：給老大跟我造成一大堆麻煩——					Dialog					Dialog 八戒：喂——				
Action Notes 八戒又翻牆，指著史尼爾地					Action Notes					Action Notes 八戒嫌百地胸著肚子。				

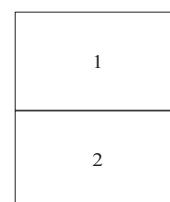
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- 邱立偉導演蒞校出席產學案會議
Director Chiu Li-Wei attended the university-industry collaboration meeting at Shih Chien University.
- 分鏡腳本
Storyboards

Bachelor Program in Computer Animation Produced TV Series “Pigsy Express”, a University-industry Collaboration, Won the Golden Bell Awards for Best Animation Program

Assistant Professor of Bachelor Program in Computer Animation Rachel Pong (彭鳳珠)

It has been more than a decade since I last worked with Studio2. In early September 2019, I received an email from a producer at the company, asking if I could help create a storyboard and animatic. The project was a 3D animated TV series of 26 episodes (two seasons, with each episode lasting 11 minutes). At the time, our first batch of students from the Bachelor Program in Computer Animation were in their senior year. It was time to test what they had learned over the previous three years and an opportunity to help the company as its production schedule was delayed. I decided to pick 12 qualified students and assigned them into groups of two, with each group responsible for the storyboard of one episode. In the end, a total of three classes from the sophomore to senior years participated in the early and middle stages of the production of the animated TV series.



1-2. 上色圖片
3D Animation

This university-industry collaboration is the largest one since the program was set up in 2016. The collaboration was divided into three stages: 1. Planning: creating the storyboard; 2. Animation; 3. Creating parts of 2D characters and special effects. However, the storyboard is the key to the production of an animated film. It takes the ability of image creation, designing camera shots, drawing skills, performance instructions, camera perspectives and rhythm in camera to create a storyboard. Naturally I was worried about whether my students were able to deliver results which were to be scrutinized by professionals. Therefore, I decided to have them work on only 11 episodes. During the seven months of production, I strived my best with my students. I was also grateful to Director Chiu Li-Wei (邱立偉) for his patience. The students gained excellent experience and training during the process and completed the task. Moreover, their effort paid off as the director and the studio decided to continue the collaboration for the next stage of the project.

In April 2020, we had the storyboard ready. What came next was more intense work and more help was needed. I then recommended lecturer Chen Yi-Chen (陳奕辰) to support a couple of senior students to work on a 11-minute episode, which took about two months to complete. In August 2020, the total of 26 episodes were at the end of the middle stage of production. Each episode required a large amount of 2D special effects. With the mutual trust built previously, I was able to recruit two classes with students ranging from sophomore to senior years to work on 24 episodes and completed the task at the end of April 2021.

The three stages of this university-industry collaboration took nearly two years. With the guidance of two lecturers, three different years of students were able to deliver satisfying results. While the students gained experience in the industry and were paid for their work, the studio also got timely support as they struggled with the workload. It was truly a win-win experience for all. More importantly, the students learned about how people work in the industry, such as how to collaborate to deliver the required quality and results, communication, the importance of schedule and time management. They learned that every detail has to be perfect to deliver satisfying results. And once they gained the trust of clients for their hard work, naturally more job opportunities will come knocking.



動畫學程師生團隊至 Studio2 公司
參加產學案會議
Meeting in Studio2



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2	3

1. 《未來宅急便》產學案得獎海報
Poster of the award-winning university-industry collaboration animated program "Piggy Express"

2-3. Studio2 《未來宅急便》分鏡實習
Studio2 "Piggy Express" storyboard internship