

DTSL Providing 3D Printing and Scanning Solutions
for the Department of Industrial and System
Engineering, The Hong Kong Polytechnic University



Project Overview:

Client:

- The Department of Industrial and System Engineering, The Hong Kong Polytechnic University

Solutions:

- Provides 3D Printing and Scanning Solutions and professional consultation services

Benefits of DTSL:

- Provides Full Series 3D Printing Solution
- One-stop installation and technical support

Client's Benefit:

- Developed students' three dimensional creativity
- Discovered students potential
- Encouraged students to synergize cross-subjects knowledge



Background Information:

As part of the Engineering Faculty, the Department of Industrial and System Engineering, emphasizes on practical learning and the basics of engineering. The department teaches in-depth knowledge about system engineering and help their students' development in their careers and further studies.

Client's Needs :

The department would like to install 3D printing equipment to provide a better service and research opportunities for students and out-of-school researchers and enhance their students' multi-talent development. Also, the school would like to develop the students creative mindset by increasing their exposure to 3D designing, allowing 3D designing to be an option for further studies. Other than tutorials and researches, the 3D printing equipment are also used for regular seminars and workshops.



Fig. 1: Tiertime UP Plus 2 3D Printer



Fig.2 : Skanect 3D Scanning Solution

Solution :

The Ng Tat-lun Digital Factory installed 6 desktop 3D printers in 2014, mainly being the Tiertime UP Plus 2. UP Plus 2 is a economical and easy-to-use 3D Printer equipped with auto calibrating platform. It allows the operators to familiarize with the operations with ease. The factory also installed Skanect's software and 3D scanning solutions.

Services :

DTSL provided installation services and door-to-door maintenance services. We provided professional technical support and all-rounded consultation services for the factories operators. The department's technicians can then handle the printers with ease and produce a high range of 3D printed models. DTSL also provided basic and advance operating training for technicians in the digital factory, allowing them to master the use of 3D printers.

Client's Benefit :

After setting up the 3D printers, the department can implement 3D printing technology into lessons and other activities, ultimately enhancing the students' development. The technicians of the factories can now utilize 3D printing in more areas, which increases the quality and efficiency of the factory.

The university also included 3D printing in the summer camp organized by the faculty of engineering for secondary school students. One of the participants thinks that the summer camp has inspired him to continue his studies in the field of engineering.



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