

DTSL Providing 3D Printing and Scanning Solutions for Pok Oi Hospital Chan Kai Memorial College



Project Overview:

Client:

- Pok Oi Hospital Chan Kai Memorial College

Client's need:

- Install and utilize 3D printing for educational purposes

Solution:

- DTSL provided one-stop 3D printing and scanning solution

Benefits of DTSL:

- Provides a full series 3D printing and scanning solutions
- Provides an one-stop installation and technical support

Client's benefit :

- Stimulated students' creativity
- Developed students' mindsets for three dimensional designing
- Improved teaching quality



Background Information:

Por Oi Hospital Chan Kai Memorial College is a subsidized school in Shatin, established in 1990. Since 1999, the school participated in various creativity related competitions to encourage students to utilize cross subjects knowledge and creativity

Client's Need:

The school would like to apply 3D printing technologies in Design and Technology lessons in order to enhance their student's three dimensional creativity. And through the process of designing, develop social and technological awareness. By using 3D printed model, teachers can improve the clarity and elaborate vague concepts in their lessons. On the other hand, the school would like students to learn about 3D printing technology and the basics of designing. Through activity learning, the school would like students to analyze and solve problem through a process of designing. The school believes that 3D printing technology will mature in the near future, therefore they would like their students to have pioneering knowledge about 3D printing to benefit their further studies and careers.



Fig. 1: Products of 3D printing designed and produced by teachers and students.

Solution :

The school began to install 3D printers since 2013, including the *Velleman K8200* and *PP3DP's UP Plus 2*. Velleman was designed based on *RepRap's* prototype. It allowed students to easily comprehend the operations and concepts behind 3D printing. The *UP Plus 2* is a economical and easy-to-use desktop 3D printer. It has an auto calibration platform that allowed students to familiarize with 3D printing with ease.



The school also installed 3D scanning solutions to aid the production of 3D models. The solution included Skanect3D scanning software. It can capture different sceneries and figures and create a virtual 3D model in STL format in minutes. With the aid of 3D printers, innovative products and models can be produced with ease

Service :

DTSL installed 3D printers and scanners for the school and provided door-to-door maintenance services. We also provided professional technical support and all rounded consultation services for teachers and students.

DTSL's technicians provided training for teachers to ensure teachers are familiarize with the operations of 3D printers and be able to deliver lessons related to 3D printing.

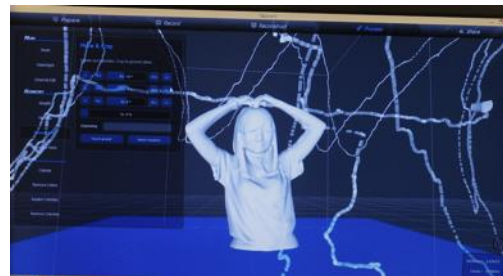


Fig. 2: Skanect 3D Scanning Software

Client's Benefit :

After installing 3D printers and scanner, students are now able to design and produce various of 3D printed models with satisfaction. Teachers are able to utilize 3D printing to produce teaching tool, which enhanced the interactions in class and made their lessons more interesting.

The school believes that applying 3D printing solutions are able to train the students' problem solving skills and develop their creativity. Ultimately benefiting the school and the students.



DTSL – Discovery Technologies Limited
Unit L, 11/F, MG Tower, 133 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong
Tel: +852 3160 8443 | Fax: +852 3520 2341
Email: info@dtsl.asia | Website: www.dtsl.asia