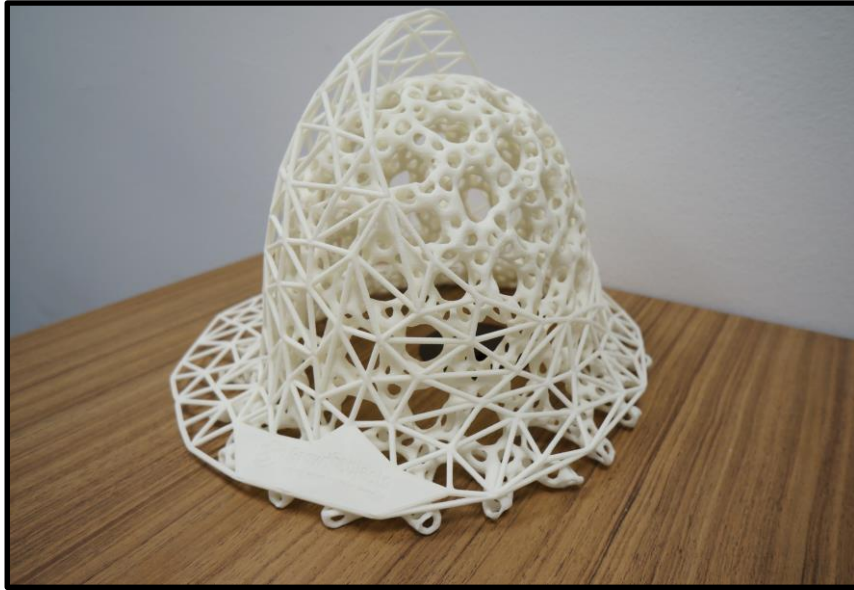


2017 5TH Singapore
International 3D
Printing Competitions
Winners

THEME: HATS

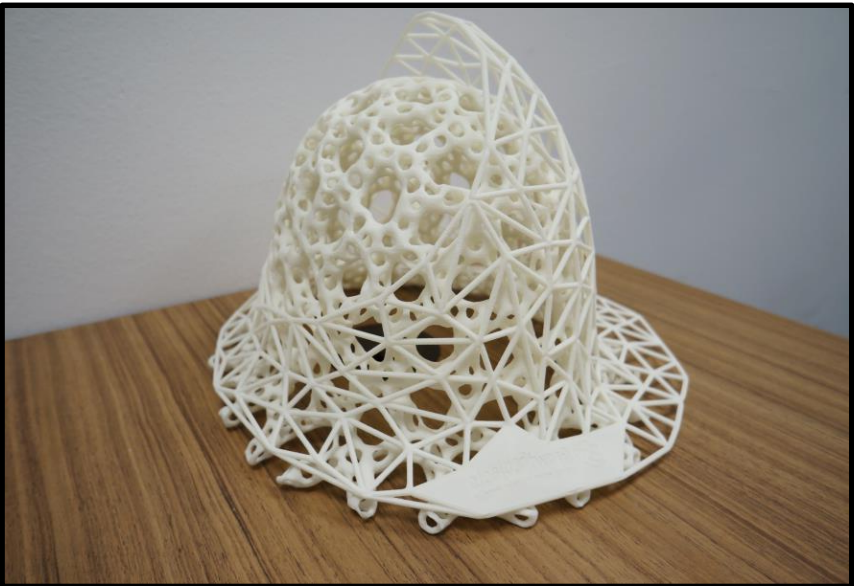
Open Category



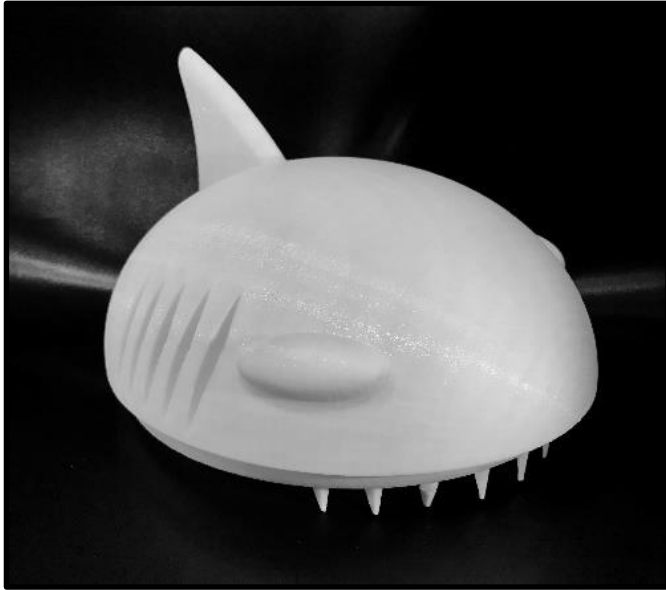
Growth Objects

Mr. Patrick Christoux
Society Axis (SAS), France

The additive manufacturing used to make this hat is a technology not used by hat makers. In fact, the raw material used is in the form of powder used in Selective Laser Sintering. The SLS process endows this object with a pristine white quality that gives it class and elegance. For more originality, it is also possible to wear our hat one on top of another.



Technique: Selective Laser Sintering



The Biting Shark

***Eugene Soon, Cindy Ong Xin Yi, Abri Lavena De Cesarea
Republic Poly***



Inspired by the powerful character of a shark, the hat is designed to mimic the structure of a shark head which could be appealing to younger generations. With the white felt teeth and the sleek outlook, this shark hat can be used as a protective helmet with its high strength to protect the users. The material used is PLA which can absorb high impact stress.

Technique: Fused Deposition Modelling

School Student Category (College of Engineering, NTU prize)



The Greek Mythology

***Fan Kerong, Chen Jiarui
River Valley High School***

When you first look at our design, it may seem like a piece of elegant architectural work rather than a hat. Our inspiration actually comes from the Parthenon in Athens, the most important surviving building of Classical Greece. What if we could wear such a magnificent architecture on the head? That is why we have brought the style of Ancient Greek Architecture to our own design.

Technique: Fused Deposition Modelling

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THEME: CLOCKS

Open Category



Auspicious Cloud Clock

***Pang Dian, Wang Wei, Lu Xiaoyu,
Li Penghui, Qian Pengyun
AFZ 3D Community (Tianjin Sino-
German University of Applied
Sciences)***

The clock we designed is called the Auspicious Cloud Clock. We combined the traditional timing with the modern technique. It not only represents the Chinese characteristics but also our creative spirit. The clock is characterized by auspicious clouds. The cultural concept of auspicious clouds has existed for about 1000 years and they represent the Chinese culture.



Technique: Fused Deposition Modelling



Gyr0-Clock

***Stanley Wong Jian Liang
Nanyang Technological
University***

My design essentially came from the concept of gyroscope. A Gyroscope is a wheel mounted in three gimbals where the wheel can rotate in three axes. However, having three axes is not sufficient in displaying the hours in a clock due to the number of shells, hence, I increased the number of axis of rotation in my clock design to a point where there are six shells. Every shell has 2 numbers where each number represent an hour on a clock. The shell will rotate to display the correct hour throughout the day up to 12 hours. Due to time constraints, the actual submission does not include a minute ring.



Technique: Fused Deposition Modelling

School Student Category (College of Engineering, NTU prize)

AION

Chen Mingkai
Hwa Chong Institution



For centuries, pendulum clocks handmade by craftsmen were seen as masterful works of art, and status symbols of the wealthy. Almost 400 years after this invention, I've recreated such a clock with the use of cutting-edge modern technology. While this is a model of a mechanical clock and thus not a fully functional timekeeper, it features moving mechanisms that are realistic and physically accurate.

Technique: Selective Laser Sintering