NANYANG TECHNOLOGICAL UNIVERSITY

School of Mechanical and Aerospace Engineering

2014 SINGAPORE INTERNATIONAL 3D PRINTING COMPETITIONS
TOP PRIZE WINNERS

TOP PRIZE WINNER

OPEN CATEGORY

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Orchid-Spirit

By De-Yau Lin (Team), Taiwan

The Orchid Floral Hair Pin is featured with elegant gold 3D printed petals and delicate pin with silver tincture. The rigid pin can be transformed, and can be worn as a Bracelet. The buds contain the oil, spread the fragrance slowly.

Technique: SLM (Ti-6Al-4V)

TOP PRIZE WINNER

TERTIARY CATEGORY

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Inflorescence of Orchids

By Nor 'Atikah Binte Zainal (Team), Republic Polytechnic

The Jewel set was inspired by Vanda Miss Joaquim. With the combination of diamonds and orchid, this design intent to remind every Singaporean of the efforts of our forefathers to develop us from a small fishing village to a shining star and at the same time one of the most visited Garden City in Asia.

Technique: Polyjet (using VeroGray, Fullcure 850)

TOP PRIZE WINNER

SCHOOL CATEGORY

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Frosom

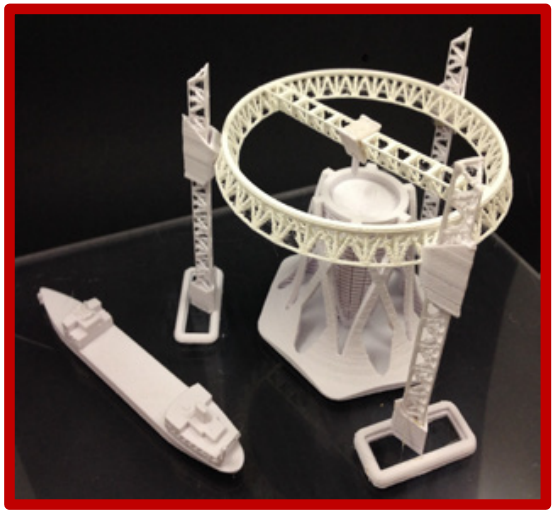
By Jia Deqian & Xi Xiaodong,
River Valley High School

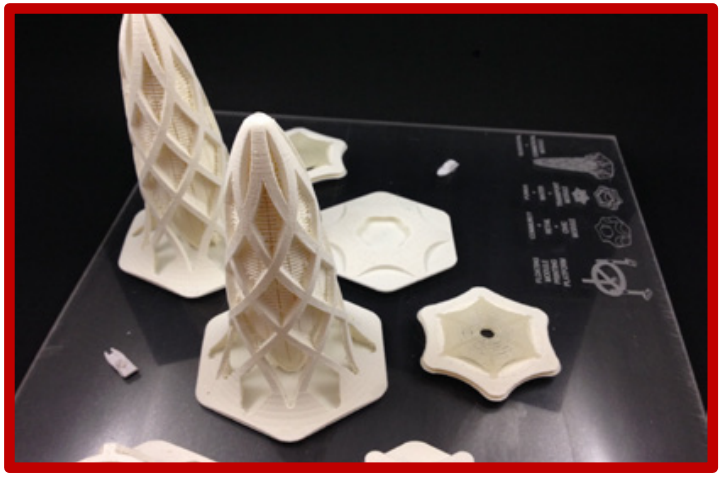
Frosom is comprised of three hairpins, with one comb-shaped hairpin and one pair of long-needle pins. Two long-needle hairpins form stark contrast with each other, yet unified by the grand theme of orchid flower as the focal point.

Technique: FDM (ABS)

TOP PRIZE WINNER

OPEN CATEGORY





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Venice of the South East

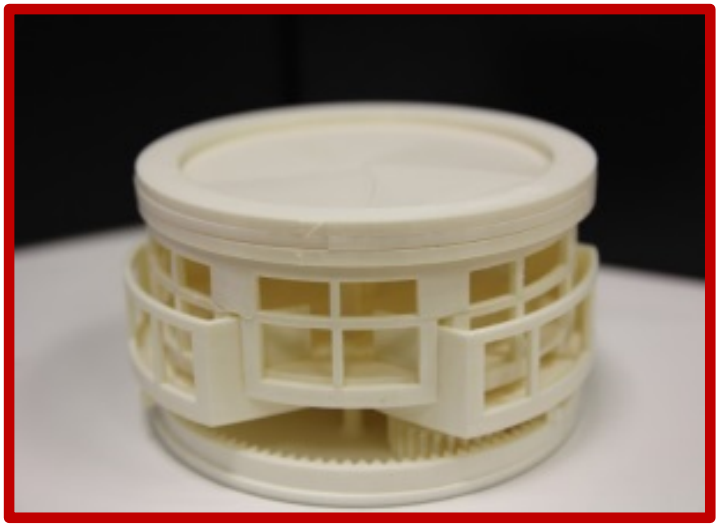
By Lim Kae Woei (XYZ Workshop), Australia

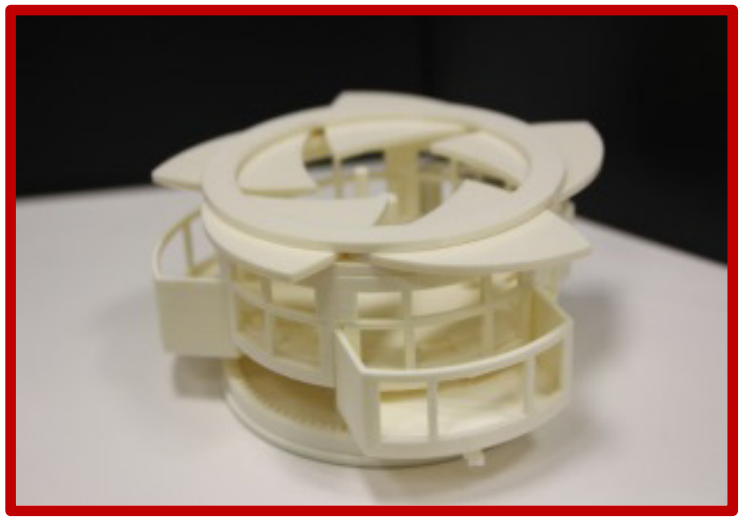
Venice of the South East is a series of modular floating platforms that are inter-connected like a living ecosystem. Each floating platform is to house various programmatic functions needed for an entire community to function.

Technique: FDM (PLA)

TOP PRIZE WINNER

TERTIARY CATEGORY





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Morphling

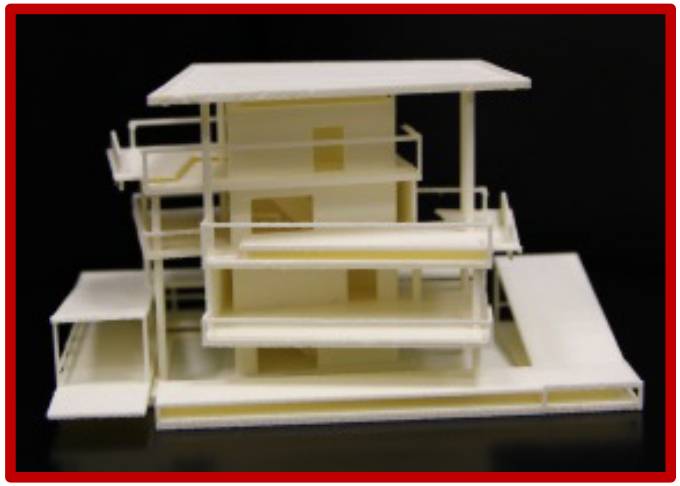
By Cheung See Lin (Team), NTU MAE-CEE

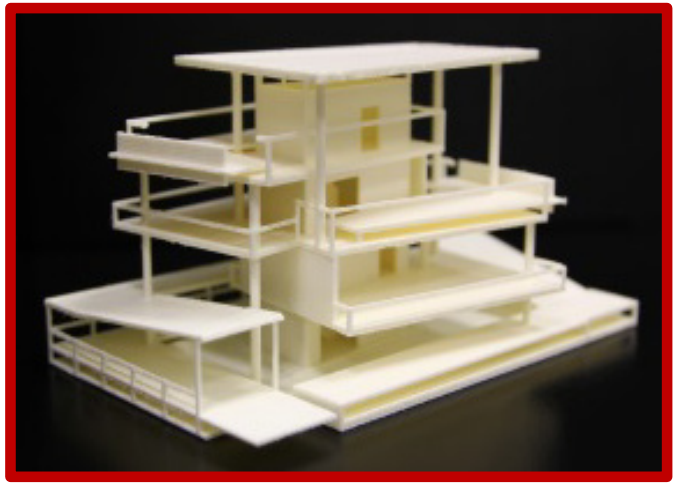
The expandable platform serves as additional space which can be retracted when not in service which reflects the dynamic space requirements of the individual at each stages of the day.

Technique: FDM (ABS plus)

TOP PRIZE WINNER

SCHOOL CATEGORY





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Castle in the Air

By Lu Zhen,
Hwa Chong Institution

Castle in the Air, a connecting block between high rise buildings, is created for office workers to relax and it also provides an excellent environment for them to communicate and chat with one another.

Technique: FDM (ABS)