

# NTU Singapore holds first 3D printing festival

Dec.17, 2013

Nanyang Technological University (NTU) in Singapore on Tuesday showcased some fashion pieces at its first 3D printing festival. Fashion models strut out in unique outfits that were not created using the traditional needle and thread, but 3D printers. The festival showcases the countless possibilities of 3D printing technology and gives a preview of where it is headed in the near future.

A collection of 3D printed mechanical parts, including a large gear-like structure, a smaller gear, and a complex assembly of rods and joints, displayed on a dark surface.

 **NANYANG TECHNOLOGICAL UNIVERSITY**  
School of Mechanical and Aerospace Engineering

## SINGAPORE'S FIRST 3D PRINTING FESTIVAL

See the future in 3D printing at NTU, a global university on a rapid rise. Building on NTU's world-leading expertise in 3D printing, Singapore is now at the forefront of 3D printing technology.

NTU's School of Mechanical and Aerospace Engineering is hosting Singapore's first 3D Printing Festival, which culminates in the Singapore International 3D Printing Competitions where 2 grand prize winners will walk away with S\$10,000 each.

Highlights of the festival include internationally renowned Melinda Looi's exhibition and other 3D printing projects as well as industry talks.

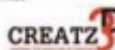
**TUESDAY, 17 DEC 2013**  
Research Techno Plaza  
Nanyang Technological University  
50 Nanyang Drive, Singapore 637553  
2pm to 6pm (Registration starts at 1.30pm)

Get your invitation to this exciting event by registering your interest by 15 Dec 2013 at <http://www.ntu.edu.sg/mae/3DPrintingFestival.html>

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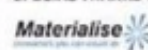
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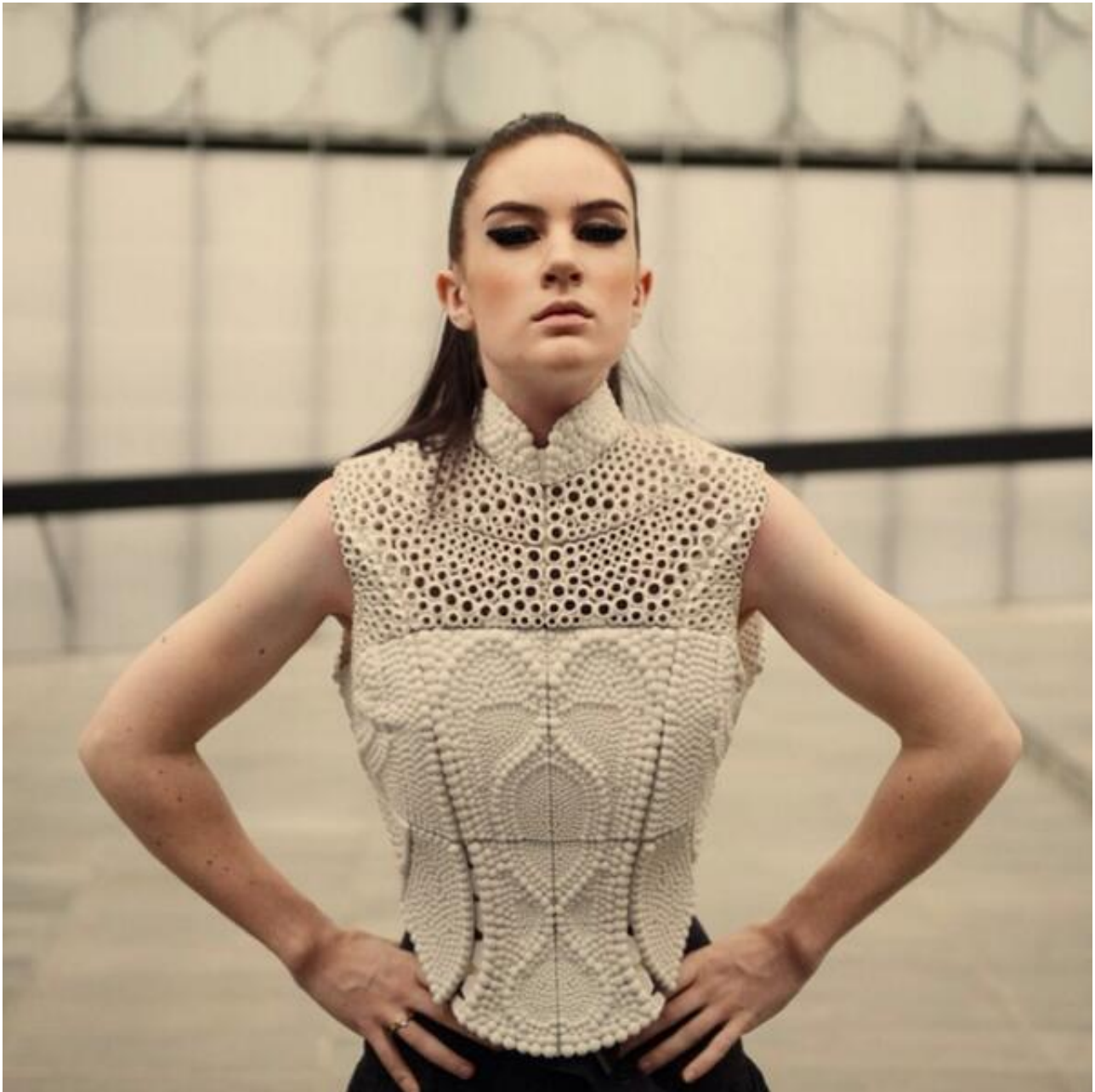
College of Engineering  
School of Art, Design and Media  
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The festival also marks the finale of the two international [3D printing competitions](#) where four teams from Australia, China, Vietnam and Singapore successfully clinched the top prizes of S\$10,000 and \$3,000 in each category.

"I hope our 3D printing competitions will fuel the creative juices of young people all around the world, and inspire both engineers and artists alike to embrace the technology to better our lives." said NTU President, Professor Bertil Andersson.

### **Water-inspired design wins top prize for Wearable Fashion**

The top prize in the Wearable Fashion category went to Lim Kae Woei and Elena Low Lee Wei, from [XYZ Workshop](#), a 3D printing workshop in Australia. Their design, inspired by the competition's theme of water technologies and sustainability, focuses on the transience of water and its changing states.



*Photo credit: XYZ Workshop*

The bodice features a series of solid and hollow spheres that echoes the traditional Chinese cheongsam. The final design is made up of 26 different sections and had taken the duo about 160 hours to print on an Ultimaker 3D printer.

The commendation prize went to a team of seven NTU students who synthesised both art and technology to design a flowing 'chainmail' inspired by the Chinese word for water (水), with patterns of large drops of water at the shoulders giving way to smaller drops of water as it unfolds from top to bottom.



*Photo credit: NTU*

**Top abacus design combines ancient coin and abacus**



Clinching the top prize in the Abacus Design category was a trio from China who used the latest techniques in 3D metal laser printing to create a small abacus hinged within a large ancient coin with intricate wordings embossed on its sides, complete with two doors and mini handles.



*Photo credit: The Straits Times / Hoe Pei Shan*

The winners, Xiao Zefeng, Liu Ruicheng, and Yang Yongqiang, who had fabricated their coin abacus using stainless steel, said they had hoped to combine the abacus and the ancient copper coin to fabricate a functional part which can showcase the history of Chinese commercial economy.

The commendation prize winner Vietnamese Nguyen Phuc Hung had printed his complex abacus design with finesse, resulting in a wrist-worn 'calculator', which marries both the bangle and the abacus.



*Photo credit: The Straits Times / Hoe Pei Shan*

He said that he had designed this with personal fabrication in mind – meaning that others should be able to print it easily within a few hours.

The competition received a total of 30 submissions with 20 entries from Singapore.

NTU announced a new \$30 million dollar [3D printing research centre](#) in September this year, which aims to keep Singapore at the forefront of 3D printing technologies.