

**CUHK Convocation Outstanding Services
and Creativity Student Awards 2014/15**

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Major	Architectural Studies

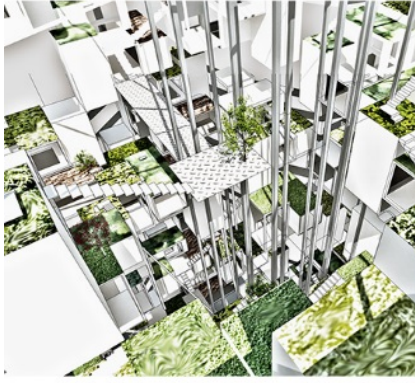
Innovation is something that is produced after a solution to a problem or a need of any form, kind or type is realized after repeated contemplation. It's easy to think of a well-known solution to a problem but to think of a better or a new solution is another matter. To find this I believe that it takes one to persevere, persist and have unrelenting faith that God will gift us with the solution at the right time. During University I was given several opportunities to explore this area of innovation and apply in to the field of architecture which I was majoring in. I entered in to several competitions where in two of them my submissions were recognized and rewarded.

The first reward I received was from the Fundacion Eduardo Torroja in Spain who hosted the International Ideas Housing Competition. The competition brief stressed on sustainability and called for innovative solutions in the field of housing. I won second place with an award of 3000 euros. The immediate starting point of the design was the facade. It was from there where the idea to enclose an entire block of flats with a main external green-house façade came about. Creating air cavities between walls and windows to insulate the building is commonly practiced but in this project this concept was take a step further to be incorporated in a much larger scale. This then gave the project the freedom to have a radical spatial arrangement inside this façade envelope.

The second reward I received was from the Solve for Tomorrow competition (Hong Kong) organized by Samsung. My submission was selected in the top 20 (Tertiary education category). The competition called for ideas to save the environment in the city. The project I submitted was called 'Rubbish Mill' and as its name suggests it is about creating energy with rubbish not by incinerating them but by using the potential energy they have when they are stored several stories high in apartments. Dropping them and making them turn turbines is a new way a city could generate its own energy.

Other than my involvement in competitions during my time in Chinese University I was also given the opportunity to participate in CLOVER. CLOVER is a University based service group which sends students to communities in Hong Kong that are in need. I had the privilege of serving the young ethnic minority groups in Hong Kong which was rewarding and eye opening. To meet individuals who live in such close proximity yet have had such different up bringings was a reality which I was opened up to for the first time.

As I close I would like to express my gratitude to the CUHK Convocation for rewarding me with the Outstanding Creativity award. The board were very interested and keen in knowing my adventures in the University and I thought it was a privilege to talk before them. I believe that the award will encourage others to apply what we have to learnt to the test and see what fruits they can produce in the world outside of University. Thank you for reading.



PICTURE...

ALL APARTMENT COMPLEX WHICH HOLDS A LOUIS VERTICAL TOWN CAPABLE OF BEING CLAIM ITS OWN ENERGY, WHILE BEING AN INTERACTIVE WITH HUMANITY AND NATURE.

THE INCREASED LACK OF LAND IN HONG KONG HAS CAUSED FLATS TO BE BUILT IN A VERY COMPACT AND DENSE MANNER. THIS PROBLEM HAS ALSO CAUSED HEAVY PERFORMANCE TO OCCUR. THE APARTMENT COMPLEX APPEARS TO SOLVE THESE TWO PROBLEMS.

ARCHITECTURAL FLAT TO MOVE HEAT FROM INSIDE TO OUTSIDE, BUT THIS HEAT COLLAPSE USED INSTEAD OF BEING WASTED. FOR EXAMPLE, THE EXHAUSTED HEAT CAN BE USED TO HEAT THE NEXT HOUR'S WATER.

HIGH SUMMER SUNLIGHT IS BLOCKED (SUNSHADE RAYS)

LOW WINTER SUNLIGHT IS NOT BLOCKED (SUN RAYS)

TRANSPARENT PLASTIC WINDOW AND MECHANICAL SYSTEMS TO KEEP THE HEAT INSIDE TO KEEP THE HEAT ALL HEAT GENERATED BY SUNLIGHT WILL BE TRAPPED INSIDE.

WIND TUNNELS MAINTAIN ENERGY

FRESH WIND ENERGY TO ALL FLATS THROUGH PLASTIC WINDOW AND GROUND

EACH FLAT IS MADE OF 5 IDENTICAL BOWS WHICH MAKES ITS MAINTENANCE SIMPLE. THE FLATS ARE POSITIONED IN AN OPTIMAL POSITION WITHIN THE ENVELOPE. THE CENTRE HELPS THESE ELEMENTS WHICH ALSO ACTS AS THE CORE STRUCTURE.

FEEL THE DIFFERENCE

Submission to the International Ideas Housing Competition hosted by the Fundacion Eduardo Torroja in Spain



Clover closing ceremony, Me with the Kids