

IDC HIGHLIGHTS

IDC UROP: WHAT THE HACK @SUTD

Team Members:

Koh Kai Wei, Aravind Satkunasin, Bryan Cresswell, Yustynn Panicker, Quek Wen Jia Marcus, Hoo Jian Li, Basil Yay Ji Tsing, Shaun Yee Han Yi, Adam Haziq bin Mohd Arshad, Dong Yuan Jia, Tenzin Chan Han Wei, Justinian Siah, Soo Ming Jin, Gong Chen, Harleen Kaur Sidhu, See Wan Yi Faith, Ong Xiang Qian, Wong Chi Seng, Zhou Enna, Ng Sin Jinn Ryan, Chuang Kuang Jie Ivan, Ong Wei Tong

The team raised \$20K+ of funding from large companies to run a 24-hour hackathon event for 125 participants from various institutions such as NUS, NTU, Singapore Polytechnic and etc.



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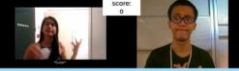



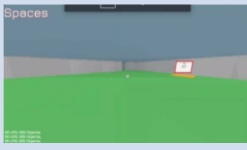
A study on innovation and creativity through hackathons

What the HACK is designed to prove the following, that giving participants an open approach to ideation generally results in a greater variance of ideas given the proper equipment and motivation. The team believe that this hackathon will help to boost the hacker culture in SUTD, allowing them to network with other talented individuals from other universities, sharing ideas and working together as one team.

Throughout the duration of the hackathon, participants presented a wide variety of projects ranging from smart windshields, to plasma ion space thrusters. The prototypes built by the students had achieved the intended effect of having people of different backgrounds coming together to build a prototype that addresses the issues laid out for them in What The Hack 2017.

What the Hack 2017 has shown to produce quite a large variance and high quality in terms of solutions created. When participants were allowed to pick and choose how they wish to interpret the problems, they could create really interesting ideas that can be used in other fields.

EXAMPLES OF SUBMISSIONS

Team Name	Project Description	Product
SIGNify	SIGNify was built around the art of singing, as a way of interpreting the lyrics to a song via the use of sign language.	
EyeVR	A VR headset powered by machine learning that helps the disabled actively control their activities.	
Duct Tape Hax	A plasma ion rocket thruster that uses high currents and high pressures to create thrust via the dissociation of argon electrons.	
Sentinel	A smart bin that classifies waste into different materials for recycling purposes. It then credits the user with money into their EZ-link card.	
Spaces	Spaces is a human-machine interface that makes your smart automation appliances, be it smart switches, sensors, or even other novel internet-of-things devices.	

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EVENT VIDEO

WHAT THE HACK 2017 WINNERS

Team Name	Project Description	Prizes
EyeVR	A VR headset powered by machine learning that helps the disabled actively control their activities.	Best Software Hack / Best Security Hack
Windshield	A visualization of air currents by using an air curtain to create a positive pressure gradient between the user's nose and the exterior of the design.	Best Environment Hack / Best Hardware Hack
WriteOn	A tool designed to analyse the user's handwriting, via the use of optical character recognition.	Best Educational Hack
Duct Tape Hax	A plasma ion rocket thruster that uses high currents and high pressures to create thrust via the dissociation of argon electrons.	Best Space Hack