

TECH SATURDAY (UPSIZED!)

Tech Saturday is a tech carnival that aims to bring something experiential for everyone in the form of fun-learning tinkering stations, interactive showcases and demos, hands-on tech and media workshops and more. It is one of IMDA's public outreach and engagement platforms to create awareness on how technology can make a massive and positive impact on the way we live, work and play, and to show the accessibility of technology. Through the showcases of tech and media demos, local companies and talent, the carnival also highlights how the tech and media industries provide viable career choices and how these sectors play a part in contributing to the Singapore's transformation towards a digital economy.

Highlights of Event

Tech Saturday (Upsized!) will feature six experiential and activity areas for members of the public to explore and discover:

1. Tinker Space

Featuring fun-learning tinkering stations, the Tinker Space is a prototype demo space as well as a marketplace for visitors. One can get hands-on with the technology and discover how technology can be simple, fun and innovative. There are 24 tinkering booths in the 350sqm area available for exploration and discovery.

“ThinkCrate Project” by Nullspace Robotics: “ThinkCrate” is a series of Arduino electronic projects for everyone. Each ThinkCrate comes complete with all essential components that allow you to learn to build and program while having fun. It contains a step by step guide and compatible hardware in one box with all the necessary information to build the project. The box projects have been popular since they were launched and have received orders from overseas. Incepted in 2008, Nullspace has four founders which include Alan Yong, Wee Soon Keong, Edmund Koh, all under 30 years old. They have been tinkering with robotics since they were in their teens.



(left) DIY Electronics Piano



(right) DIY Mood Lamp



“Little Artists for VR” by Presence Pictures: Turn your doodling art into a virtual reality showcase. Witness how you can progress from a regular art class to walking away with an immersive 360 experience of your art piece. Learn the fundamentals of spatial thinking and how the drawing gets transformed into a virtual reality artwork. Presence Pictures is founded by avid technologists Edmund Lee and Eunice Lam.



(left) Drawing Template

(right) Capturing Artpiece in App.

“Potato Pirates” by Codomo: “Potato Pirates” is a card game developed by Codomo. It is a competitive card game that teaches the fundamentals and essentials of coding, enabling participants to transit into learning actual coding such as Python easily. Codomo was founded in 2015 by 4 former students from SUTD. They are Seah Tat Leong, Aditya Batura, Lim Jia Xuan and Fendy Lleanata, all under 30 years of age.



2. Interactive Showcase

The 550sqm space features 11 interactive showcases for those who aspire to be digital innovators. Learn how the borders of technology, engineering, media, art and designs are converging and how the digital natives are creating the next generation technology products. There will be engineering showcases, virtual reality and mixed reality games as well as pre-built robotics projects.

“Nanyang Venture 8” by NTU: “Nanyang Venture 8” is Singapore’s first 3D Printed solar electric car that can travel up to top speed of 52km/h. The four-wheel urban

concept micro-car is conceptualized, designed and built by a team of 16 undergraduates from NTU, School of Engineering. This award winning car has demonstrated the emergence of 3D technologies that pushes the boundaries of engineering and design.



“BumbleBee Autonomous Systems” by NUS: “BumbleBee Autonomous Systems” is a range of autonomous underwater and surface vessels built by a team of undergraduates from NUS. The BumbleBee Autonomous Underwater Vehicle that has earned the NUS team international awards and accolades will be showcased at Tech Saturday (Upsized!).



“3D Printed Superhero LightWing” by Pathlight: “Superhero LightWing” is a project conceptualised, designed and modelled by Pathlight School students using mind-mapping techniques and thumbnail sketches. Lightwing is the patron superhero of Pathlight School and stands by the school values of Character, Competence, Compassion, Conviction and Contribution. He is a voice for those who cannot speak for themselves. The students also gave him instruments to calm those around him before they can harm others or themselves. The project is led by the school’s Infocomm Club 3D Design Group and is a joint creation by 15 students. Two students representing the group will be present that day. They are Merugu Akash Reddy and Lucas Lai Wei Rong. Both of them are from Pathlight secondary school. Accompanying teachers are Donald Koh and Elliot Chia.



“StoryHive – Eyes on Habitat Coral Reefs” by HiverLab: “Eyes on Habitat Coral Reef” is one of the many immersive presentations powered by Storyhive application. Providing a multi-user guided VR experience, one can interact with the underwater simulation featuring the coral reefs at Sisters’ Islands Marine Park. This prototype was a collaboration among PIXEL Labs, Hiverlab and DHI Water and Environment. The collaboration demonstrated how local companies can partner each other to enable innovation and growth, opening up new business opportunities in the new frontiers of technology to remain competitive in the new digital economy.



3. Workshops

There are 30 two-hour workshops as well as 2 five-hour bootcamps available for participation at the event. The workshops are suitable for anyone from the age of 7 to 70, or as long as you have an interest in technology, art and media. One can sign-up through email and the workshop is free.

A brief schedule is provided below:

DAY 1	Discover	Build	Play	Dream	Silver Gen	Faraday Challenge
1130 – 1330	COLOUR CODE A BOT	ENTER THE WORLD OF LEDs	BE A VIDEO GAME MAKER	SUMO GAME DESIGN WITH MAKEY MAKEY	DRAW IN THE AIR WITH 3D PRINTING PEN	IET FARADAY CHALLENGE “TABLE TENNIS SERVER”
1400 – 1600	CONNECT AND CONSTRUCT UNEXPECTED STRUCTURES	STORY CREATION IN VIRTUAL REALITY	POTATO PIRATES: CODE WITHOUT COMPUTERS	DISRUPTIVE STORYTELLING IN A CONVERGENT WORLD	LITTLE ARTISTS FOR VR	
1630 – 1830	DRAW IN THE AIR WITH 3D PRINTING PEN	PERFECT CUP OF TEA	DIGITAL MAKING MAESTRO	BUMPER CAR RACE – MAKE YOUR OWN APP!	INDOOR DRONES FLYING & HOVERING	

DAY 2	Discover	Build	Play	Dream	Silver Gen	Faraday Challenge
1130 – 1330	LITTLE ARTISTS FOR VR	ARDUINO SMARTPHONE IOT PROJECTS	DESIGN A POKEBALL	DO-IT-TOGETHER ARDUINO PIANO	COLOUR CODE A BOT	IET FARADAY CHALLENGE “TABLE TENNIS SERVER”
1400 – 1600	MOTOR CHALLENGE WORKSHOP – CONSTRUCT A SIMPLE MOTOR	PERFECT CUP OF TEA	DIGITAL MAKING MAESTRO	MINECRAFT BUILD-A-THON	VIRTUAL REALITY WORLD CREATION	
1630 – 1830	CONSTRUCT A BLIND MAN MAZE	BUILD A BIPED WALKING ROBOT	BE A VIDEO MAKER	TRANSPOSING THE REAL WORLD INTO VIRTUAL REALITY	DRAW IN THE AIR WITH 3D PRINTING PEN	

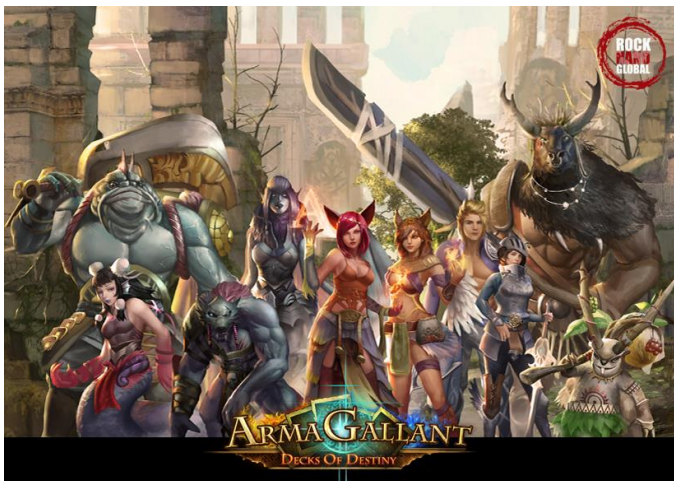
4. Arena+

Featuring an upsized Arena, the competition playfield provides elevated viewing for audiences to view the competitions and cheer for their favourite team. This year, there will be two concurrent competition playfields available.

RC Tank Battlefield: In a simulated environment, RC Tanks engage in an infra-red strategic warfare in a battle of wits.



Tech Saturday Super Cup Challenge: There are two esports competition happening in parallel, FIFA 17 and ArmaGallant: Decks of Destiny. ArmaGallant: Decks of Destiny is created by local game developer Rock Nano Global, ArmaGallant combines the worlds of deck-building, RTS and MOBA video games and is the first Singapore-made game to be released in box sets in retail stores in Europe and US. The game won The Straits Times Digital Award 2017: Reader Choice for Best Local Game and secured 1st Place in the WarGaming Developers Lab 2016 competition. ArmaGallant is also the first PlayStation 4 game in Singapore to have a boxed edition, and currently sold in the USA and European regions.



5. Hackathon

29 April 2017

FIRST LEGO League (FLL) Jr. launches its inaugural season at Tech Saturday as part of the Hackathon. It is co-organized by PIXEL Labs and complements the Code for Fun Enrichment Programme (done jointly by IMDA and MOE) offered to all MOE primary and secondary schools to increase students' exposure to coding and computational thinking. A total of 150 students will be taking part in the challenge. It is for kids aged 6-9 years old.

30 April 2017

National Coding Championship (NCC) is a coding competition done in esports fashion where participants write codes that control the artificial intelligence of their troops. It is for students aged 13-18 years old.

6. Lab on Wheels

Two "Lab on Wheels" buses will be showcasing:

- Workshops introducing coding basics such as drag and drop programming
- Fabrication labs

	<p>TINKER SPACE</p> <p>Turn tech into play! Create a game, pick up coding skills, or shop and bring home cool tinker sets.</p>		<p>ARENA +</p> <p>Take control of the Remote Control Tank Battlefield, pilot your first drone flight at the Drone Try-Out, or simply cheer on the esports gamers at the Super Cup Challenge.</p>
	<p>INTERACTIVE SHOWCASE</p> <p>Get hands-on with new and exciting tech and media showcases. Experience the convergence of technology, media and art.</p>		<p>HACKATHON</p> <p>Watch young coders battle it out at the hackathons. Be inspired by the students as they create innovative solutions for the future.</p>
	<p>WORKSHEDS</p> <p>Discover coding in colors, Build a robot, Play an Arduino piano, or Dream your virtual world. With over 30 workshops to choose from, there is something for everyone.</p>		<p>CINELOUNGE</p> <p>Sit back, relax and enjoy free screenings of entertaining short films and animation.</p>
	<p>MAIN STAGE</p> <p>Engage in a plethora of activities happening throughout the day - tech talks, product show-and-tell, radio DJ-hosted segments and many more entertaining programmes!</p>		<p>FUN FOOD & DRINKS</p> <p>Food is always fun when you share it with your friends and families!</p>



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