YOUNG TECH FEST

10-11 SEP 2015 | 10AM
SUNTEC HALL 403

YOUNG TECH FEST (10 – 11th Sep 2015)

Organised specially for kids during the school holidays, Young Tech Fest will be taking place from 10 to 11 September 2015. Participants can look forward to celebrating all things tech with their family and friends and explore interesting futuristic tech displays. Participants will be inspired about the tech journeys of our tech heroines and entrepreneurs, and young coders. Global tech giants, home grown companies and up-and-coming start-ups will also share interesting insights on the tech industry in Singapore.

Event Details:

Venue: Suntec Singapore Convention & Exhibition Centre (Hall 403)

Date: 10 and 11 September 2015

Time: 10am – 6pm

Young Tech Fest Workshops

Students get to try their hand at these FREE workshops which have been specially crafted just for them.

Register today to secure your seats! The deadline is **28th Aug 2015**.

Email Naaznee_begum@ida.gov.sg with the following details:

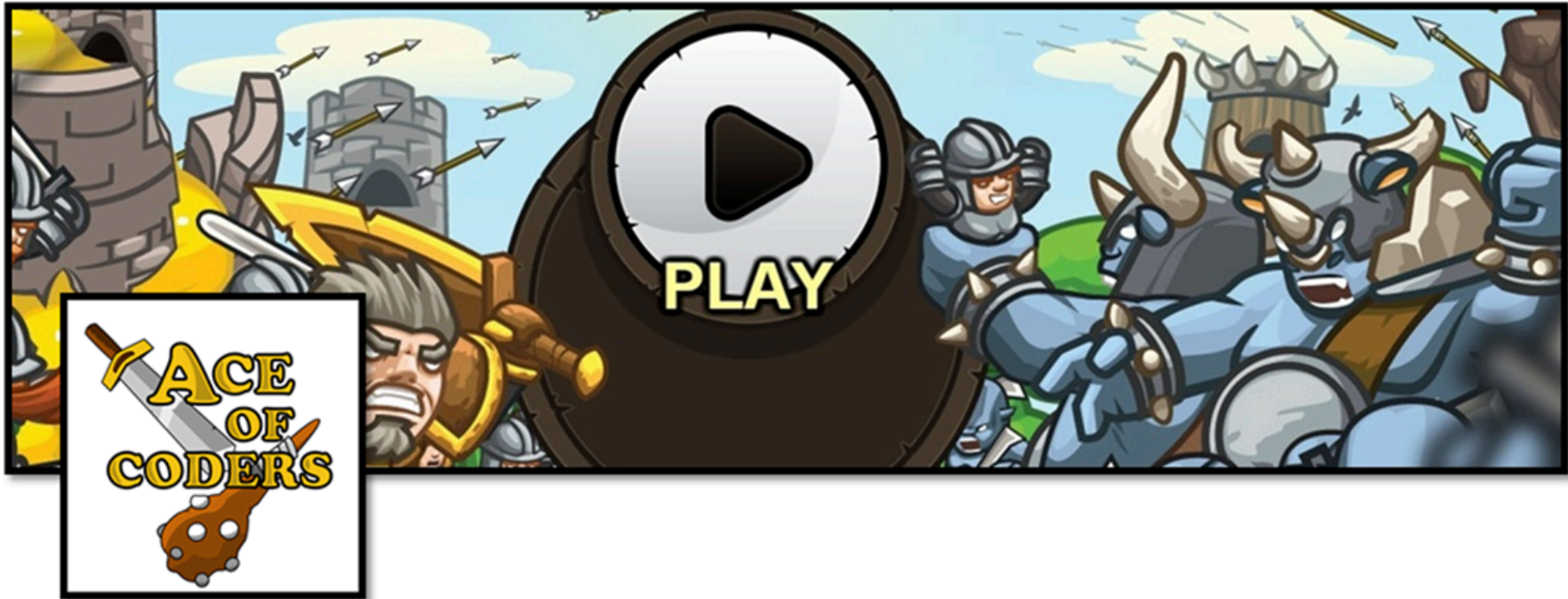| Name	School	Email	Preferred Workshop Number (Pls choose one only)	Number of participants

Workshop details

Date: 10ᵗʰ Sep	30 seats per workshop (first-come-first-serve basis)	
10.30am to 12pm	**Workshop 1**: **Build a robot using Artec blocks** Learn how to build and code your very own Arduino Robot using open-sourced software. Participants can choose to use blocks or plates to build a variety of robots. This workshop is suitable for students above 12 years old.	**Workshop 2: Future of Making things** Let your creativity come alive with Fusion 360™, the first 3D CAD/CAM tool of its kind. It can connect your entire product development process in a single cloud-based tool which will also help you to connect to your 3D printer & bring your ideas to real life. This workshop is suitable for students from ages 12-18.
12.30pm to 2.00pm	**Workshop 3: Fun with Drones** A new era of drones has surfaced! Flying a drone has always been exhilarating for students. Imagine programming a drone's flight for autonomous flying! In this workshop, students will learn about the aerodynamics of flight and the applications of drones in the society. After knowing how drones works and fly, the students will be introduced to autonomous control of a drone. They will learn about the basics of Object Oriented Programming and how to code the flight motion of an autonomous flight. This workshop is suitable for students above 10 years old.	**Workshop 4: Prototyping a Driverless Car using moWay and Scratch** mOway allows students to discover what Programming is, with user-friendly and intuitive software that controls a little robot. Join us for this workshop to learn to code and solve mission tasks. This workshop is suitable for kids from ages 7-12.
2.30pm to 4.00pm	**Workshop 5**: **Game Creation with Kodu** Kodu is a new visual programming language made specifically for creating games. It is designed to be accessible for children and enjoyable for anyone. The programming environment runs on the Xbox, allowing rapid design iteration using only a game controller for input. This workshop is suitable for students from ages 7-12.	**Workshop 6**: **First Tech Maker** First Tech Maker workshop inspires young people to be Tech innovator and inventors. This workshop provides introduction to graphic programing, electronics and robotics through fun, engaging, and stimulating experiential learning session with mbot. This workshop is suitable for students above 10 years old.

| 4.30pm to 6.00pm | **Workshop 7**: **Cloud computing with Azure** Any developer or IT professional can be productive with Azure. Azure's integrated tools, pre-built templates, and managed services make it easier to build and manage enterprise, mobile, web, and Internet of Things (IoT) apps faster, using skills developers and IT professionals already have and technologies they already know. This workshop is suitable for students above 14 years old. | **Workshop 8**: **Game development using Gamesalad** There is no faster or easier way to develop games than with GameSalad Creator. Whether you're a seasoned pro or just getting started, its visual drag & drop interface and deep behavior library make game creation fast and easy. Bring your work to life in hours and days instead of weeks and months. This workshop is suitable for students above 10 years old. |

Date: 11th Sep	30 seats per workshop (first-come-first-serve basis)	
10.30am to 12pm	**Workshop 9**: **Code VR with Unity 5** Get yourself immersed in 3D environment by applying the knowledge of Unity application development to headest devices such as the VR One and Google Cardboard. This workshop is suitable for students above 12 years old.	**Workshop 10: Creating cool things with Arduino Kits!** Want to know if it's time to water your plant? Learn how to use an Arduino microcontroller to create a plant moisture sensor! This workshop is suitable for students above 12 years old.
12.30pm to 2.00pm	**Workshop 11**: **Fun with TouchDevelop** Create apps everywhere on all your devices! For Windows Phone and the web. In the TouchDevelop programming environment you write scripts by tapping on the screen. You do not need a separate PC or keyboard. Scripts can perform various tasks similar to regular apps. Any TouchDevelop user can install, run, edit, publish scripts. You can share scripts with other people by publishing them to the TouchDevelop script bazaar, or by submitting them as an app to the Windows Store or Windows Phone Store. This workshop is suitable for students above 12 years old.	**Workshop 12**: **Hologram Pyramid Illusion Content Creation** Are you amazed by the hologram illusion used in movie and presentation? Ever wonder how to replicate it at home? Well, now you can! In this workshop, you will learn how to create 3D holographic presentation content using software from Autodesk and Microsoft. This is a family bonding workshop. It will require one of the parents to accompany the child, who should be older than 7.

Time		
2.30pm to 4.00pm	**Workshop 13: Code with Bluemix!** Learn how to code with Bluemix, an open-sourced platform that enables developers to to easily and rapidly create their applications. This workshop is suitable for students from ages 7-12.	**Workshop 14: Coding for a Smart Nation** Harnessing the power of the Raspberry Pi, the workshop will introduce participants to the Project Traffic Analytical System (TAS). TAS is an analytical system simulating deployment at the traffic light junctions to gather useful and real time information that will offer detailed data and readings, and thus better understanding of traffic situations happening on the ground. TAS utilizes simple components such as LED lights to simulate a real life situation where the lights change every few seconds. In addition, we will be including addition components such as motion sensors, buzzers, camera and wireless modules to modify and elevate our existing traffic lights. Moreover, we will also be introducing wireless technology and cloud based storage. This workshop is suitable for students above 12 years old.
4.30pm to 6.00pm	**Workshop 15: Geek girls** A Discover a new world of play, learning, programming and adventure with Dash&Dot, LittleBits and Circuit stickers in 90 mins. This workshop is for females only. This workshop is suitable for students from the ages of 7 onwards.	**Workshop 16: Building and Coding an Arduino Car** Learn how to build and code your very own bluetooth controlled Arduino Car that can be outfitted with different components.

National Infocomm Competition (NIC) Face-off | Coding – Ace of Coders

Ace of Coders is a competition for talented coders like no other you've seen. Top coders compete in front of a live audience and the ultimate trophy goes to the most talented who can defeat their opponents in a fantasy gaming environment. The catch – you don't play with your insane gaming skills, but with codes! You will write code that controls the AI of your troops, everything from crafty manoeuvres, calculated attacks and opportunistic spell casting. Experience the excitement as your supporters cheer for you, live in an e-sports style.

Everybody can be a part of this! All you need to do is login to http://CodeCombat.com and complete your first level. Absolutely no prior coding experience is required. What's more, it's free! CodeCombat has been played by over 4 million students around the world as part of the annual hour of code promoted by Code.org.

To qualify for the competition, inform your teacher, and go to http://www.classmentors.com to enter your profile and sync up with your CodeCombat progress. You can take part in one of the following categories:

- Junior category for the Secondary/IP1-4 equivalent
- Senior category for the JC/IP5-6 equivalent

*Only for students from MOE national schools

In order to celebrate the best and brightest student developers in Singapore, the top 10 teams (2 coders per team ranked by badges from CodeCombat, CodeSchool and SingPath) from the Junior and Senior categories will be invited to the live Ace of Coders event happening on 11th September as part of Young Tech Fest to be held at Suntec. This will be an excellent chance for some of Singapore's most promising young coders to prove yourself, and bring glory for your school.

There will be over $9000 in prizes for the winners. The first place team in each division will take home $2500 and the second and third place teams will take home $1500 and $750 respectively.
- See more at: http://www.infocommtalent.sg/nic4.aspx

Outstanding Coding School Prize

To up the game … for the school that has the most number of students who take part in the qualifiers of the competition, they stand to win $200 in prize value worth of IT gadgets.
This will be verified by the students, who has earned at least 1 badge, and have registered for the event on Classmentors.
So don't just send your top 2 students to take part, send them all!

Extension of qualifying

To allow more schools to take part, we've pushed back online qualifying dates by a week. Live event date has been rescheduled to 10 Sep 2015 instead.
So keep that date free! The invited coders will be competing live at Suntec City Convention Centre on that day as part of the Young Tech Fest event.

Official Launch: 1 Jul 2015
Online Qualification Cut-off: **26 Aug 2015**
Results of Qualifying Teams: **1 Sep 2015**
Live Event: **10 Sep 2015**