

Above The Challenge

IDE2015

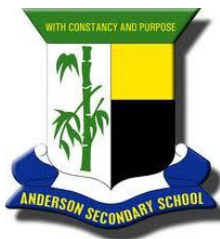
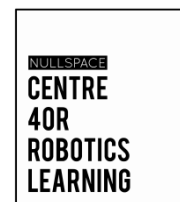
Against All Odds

Innovation, Design & Engineering 2015

IDE Championships 2015
(Singapore Round)

Competition Information Summary

Jointly Organised By:



Supporting Partners:



What is IDE?

Introduction

The spirit behind Innovation, Design & Engineering (IDE) Championships is the element of an unknown mission or challenge, which will be revealed at the start of the competition. These challenges vary from year to year, but the emphasis on innovativeness, design element and engineering remains at the heart of IDE Championships. There are three competitions under the series, namely IDE Challenge and IDE LEGO® Robotics and IDE Arduino Robotics (new!).

There will be two stages in IDE Championships. The first stage is the Singapore round which is open to both schools and public teams in Singapore. Teams who perform well in the Singapore round will be selected to take part in the International round.



Overview

	IDE Challenge	IDE LEGO® Robotics	IDE Arduino Robotics
Year Started	2011	2012	2015
Competition Area	Hands-on design and construction skills	LEGO® mechanical design and computer programming	Computer programming
Target	Science Clubs and Design & Technology	Robotics Clubs	Robotics and Infocomm Clubs
Primary (10 – 12 y.o.)	-	✓	✓
Secondary (13-16 y.o.)	✓	✓	✓
Tertiary (17-19 y.o.)	✓	✓	✓
Singapore Round	✓	✓	✓
International Round	-	-	Only for Primary and Secondary Category
Registration Fee	\$50/team	\$50/team	\$100/team (Inclusive of half day training and kit rental)
Miscellaneous Fee	N/A	\$100/team for Bootcamp Registration	\$100 to purchase Arduino robotics kit

IDE Challenge (Only Available for Singapore Round)

IDE Challenge is a hands-on competition with one or more engineering challenges. The challenge details will be announced one week before the actual competition day for the Singapore round. Teams may use this time to work on their solution and design. On the actual day of competition, teams will need to create the most effective design under limited time using the materials provided to them.

IDE LEGO® Robotics (Only Available for Singapore Round)

IDE LEGO® Robotics was previously known as RoboZone or E4 Cluster Robotics Day Camp prior to 2011. There will be an optional half day LEGO® Mindstorms EV3 robotics bootcamp one day before the competition for beginner students to pick up robotics skills. The mission will be announced on the morning of the competition day and students have 4 hours to prepare for the mission. This competition will serve as a training platform for teams participating in the annual NJRC as well as to train students to think on their feet to overcome a mission playfield under limited time.

IDE Arduino Robotics (Singapore and International Round)

IDE Arduino Robotics is a new competition category whereby teams will make use of the popular open-source Arduino microcontroller platform. Teams taking part in this category will learn how to program their Arduino board to process sensor inputs and direct their robot to accomplish as many mission objectives as possible. Teams are encouraged to attend a half day workshop on handling and programming Arduino, which will take place one day before the competition day.

Organisers

IDE 2015 is jointly organised by the following:

- Nullspace (www.nullspace.com.sg)
- Nullspace Science (sci.nullspace.com.sg)
- Centre for Robotics Learning (c4rl.nullspace.com.sg)
- Anglican High School
- Anderson Secondary School (Center of Excellence in Science)

Important Dates and Details

Singapore Round Competition Dates

IDE Challenge Mission Announcement	13 March 2015 (Through email and website updates)
IDE Arduino Robotics Bootcamp (Pri):	18 March 2015 (7am to 12pm)
IDE Arduino Robotics Bootcamp (Sec + Tertiary):	18 March 2015 (1pm to 6pm)
IDE LEGO® Robotics Bootcamp (Pri):	19 March 2015 (7am to 12pm)
IDE LEGO® Robotics Bootcamp (Sec + Tertiary):	19 March 2015 (1pm to 6pm)
IDE LEGO® Robotics Mission Announcement:	20 March 2015 (At competition venue)
IDE Arduino Robotics Mission Announcement:	20 March 2015 (At competition venue)
Actual Competition Day:	20 March 2015

International Round Competition Dates

IDE Arduino Robotics Mission Announcement:	June 2015 (<i>To Be Announced</i>) (Through email and website updates)
IDE Arduino Robotics Bootcamp (Pri):	(<i>To Be Announced</i>) (7am to 12pm)
IDE Arduino Robotics Bootcamp (Sec):	(<i>To Be Announced</i>) (1pm to 6pm)
IDE Arduino Robotics Mission Announcement:	(<i>To Be Announced</i>) (At competition venue)
Actual Competition Day:	June 2015 (<i>To Be Announced</i>)

Competition Venue

To be confirmed

Registration

Registration for Singapore Round closes on **28 February 2015**

Please note the following in addition to the registration rules:

1. Each school/organisation may register up to a maximum of 4 teams per competition event, per age category
2. Teams taking part in the IDE LEGO® Robotics Competition may choose to sign up for the one day Robotics Bootcamp training. A fee of \$100/- will apply per team for this training. All fees will be billed at the end of the course through e-invoice to the school.
3. Teams taking part in the IDE Arduino Robotics Competition may choose to purchase the Arduino Robotics Kit at \$100 at the end of the competition.
4. The organizers reserve the right to reject any teams that do not fulfill the registration criteria
5. The organizers reserve the right to close the registration once all team slots are fulfilled. Registration is on first-come-first-served basis

To register for this competition, please visit our website at: <http://sci.nullspace.com.sg/ide2015>

Contacts

For competition enquiries, contact: ide@nullspace.com.sg

For urgent matters:

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