

# Technologies Workshops – Brisbane Professional Development for Teachers

Attention: Science and Tech Coordinators / Classroom Teachers / Heads of ICT



**Introduction to Robotics: EV3:** Find out how to excite and inspire your students and discover how to integrate robotics into your curriculum. Learn practical ideas and activities to run in your classroom using the latest LEGO MINDSTORMS system and discover why robotics is fast becoming a major tool in the teaching of the Technology, Maths and Science. **\*\*No prior experience necessary!\*\***

**Beyond the Basics: EV3:** You're confident making your robot mover around and react to sensor input, but looking to push your EV3 kit just a little further? In this workshop, teacher will build and program a range of different activities, from classroom attendance counters, to games to Musical Instruments, all with the standard LEGO EV3 kit. Programming topics will include Data Hubs, Wiring, Switches, Variables, Bluetooth and Datalogging.



**Introduction to Arduino:** The Arduino platform is quickly becoming a popular tool for teaching electronics and programming. Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button - and turn it into an output - activating a motor, turning on an LED. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. **\*\*No prior experience necessary\*\***

## About the Presenter

Dr Damien Kee is an independent technology education expert, who specialises in bringing technology concepts to teachers and educators around the world. Focusing primarily on Robotics, and with a strong interest in other areas of Technology Education, he works to educate teachers on the benefits and relative ease with which technology can be embedded into their daily classroom activities.

Damien has run his popular workshops for Teachers and Students around the world and is the author of several Teacher Resource books. He has worked with The LEGO Group both as a MCP (MINDSTORMS Community Partner) as well as on the software documentation team of the recent EV3 product line. Damien is the founder and moderator of the LEGOEngineering mailing list, serving over 1000 educators who use robotics in their classroom. He has been heavily involved with RoboCup Junior, running the National competition in 2007, serving as Chairman of RCJ Australia in 2010/2011 and being on the committee (RCJ Rescue) for the International competition (2009-2012).



## Workshop Details

### When

22<sup>nd</sup> May - **Introduction to Robotics: EV3**

23<sup>rd</sup> May - **Beyond the Basics: EV3**

24<sup>th</sup> May – **Introduction to Arduinos**

Workshops run from 9am – 3pm

Morning Tea and Lunch will be provided

### Where

Tinglapa Hotel

1563 Wynnum Rd, Tingalpa 4173

### Workshop Fee

\$275+GST per person per day

Register online at [www.domabotics.com/teacher-pd](http://www.domabotics.com/teacher-pd)



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