# STEM & Programming Teacher Training Workshop

## @ eLabtronics

### STEMSEL = Science Technology Engineering Mathematics Social Enterprise Learning

**The ezSystem and STEMSEL micro-controller inventors kits help students learn STEM, programming, and social responsibility all at the same time.** No prior experience is needed and our workshops fit the ACARA Digital Technology and Design Technology curriculum.

**Our projects have the engineering documented, ready to take into the classroom. Many teachers are not trained in engineering making it challenging to teach engineering. We aim to make that easier**, by offering a range of projects including: 3D printed street lights that dim to save electricity, reducing greenhouse gases to reduce floods, droughts and poverty; wind generators; and digital codes to defuse explosives to save trapped miners. Extension projects include: Wi-Fi and Bluetooth robots, LCD displays, Olympic Torch Relay, anticollision robots, electronic safe, and digital sounds.

## Why STEMSEL?

**In our workshops**

- Learn how our projects fit mandatory ACARA Curriculum
- Learn how university interns can help your school
- Learn how Loreto College uses STEMSEL to dovetail to International Baccalaureate (IB) Creativity Action Services (CAS)
- Include a reusable kit and software to keep
- You will receive a STEMSEL PD certificate

**Our projects**

- Combine STEM, programming, and social responsibility all in one project
- Are documented with step-by-step instructions for students, all ready for the classroom
- Are easy to complete, no prior experience needed
- Are designed by engineers
- Fit the mandatory ACRA Curriculum



**When:** Tuesday 29th May 2018

9:30am to 3:30pm

**Where:** eLabtronics, 51 Byron Place Adelaide 5000

**Cost:** $300+ GST includes a Digital STEMSEL Inventors Kit and the full version of the graphical ezSystem Software

**Contact:** Miro 0425868353
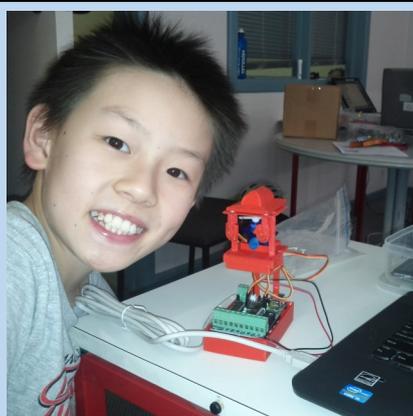**Email:** miro@stemsel.com

The Minister of STEM, Higher Education, Status for Women praises STEMSEL Integration project: http://youtu.be/9S7BE0Avi5A



Heath programmed his LEGO with Digital STEMSEL
http://youtu.be/02HEg2WrQog



Michael, an SA YICTE winner, and his 3D printed talking robot head, controlled by servo motors and a STEMSEL micro-controller.

Emily and her spinning LED display, using the STEMSEL micro controllers and a DC motor to display her name

Yr6 Heath impressed Judges at Royal Adelaide Show with his STEMSEL Solar Tracker. He won a trip to Singapore and then a second win and trip to USA Navy competition!