



Dalkey Dojo

Introduction and Beginners Arduino Projects -

May 2014

- Dojo #1 -** Introduction to the programming language C; the Arduino (an open-source electronic prototyping platform and Colour Systems; During Dojo #1 we also setup any new laptops with the correct Arduino software/drivers etc. and test that they work by connecting the Arduino via USB
- Dojo #2 -** Get LED blinking on Arduino Board; Introduce a “breadboard” and get an LED blinking on the Breadboard; Introduce Morse Code - Get LED blinking "YourName" in Morse Code; Get 3 different coloured LED's Blinking on Breadboard
- Dojo #3 -** Tie in what we've learnt in Dojo #1 & Dojo #2 to use 3 different coloured LED's to create a “pixel”, demonstrating the creation of different colours by combination of three individual coloured LED's. Finally we will combine all three to generate white light.
- Dojo #4 -** The BIG One! Build and test an Arduino Lie Detector... Addition of a potentiometer and new C functions for “serialprint” and “analogueread” etc. to enable us to build a lie detector. Test your friends and find out their deepest secrets...