

## **Assignment #2**

### **Touch Screen Keypad**

Due Date: 2 December 2012

Using the LPC2468 Development Board and FreeRTOS, design, implement and test a touchscreen keypad. The keypad should display 10 buttons for the digits 0 . . . 9, an OK button and a Cancel button. When a user enters an  $n$ -digit value on the keypad and presses OK, the value should be displayed on the console. If the user presses Cancel at any time, any digits previously read should be discarded.

### **Deliverables**

The deliverables for this assignment are:

- A  $\mu$ Vision project containing your source files. You should “clean” the project and compress it as a .zip file before submitting it using Blackboard.
- A typed report in PDF format describing your approach to the development of your keypad. The report should include a description of the methodology used to test the keypad and the results you obtained.

**The deadline for the assignment is Sunday 2 December 2012.**