Signatures

You will be experimenting with various aspects of WICED Bluetooth by completing the exercises below. Labs are marked as "Basic" and "Advanced". You should make sure you complete the basic exercises first and then work on the advanced exercises as time allows.

✔	Chapter	Exercise	Category	Description
	01 (Tour)	1.1	Basic	Create a forum account
		1.2	Basic	Open the WICED documentation
	02 (Peripherals)	2.1	Basic	Install kit + shield platform files
		2.2	Basic	Blink an LED
		2.3	Basic	Add Debug Printing to the LED Blink Project
		2.4	Basic	Read the State of a Mechanical Button
		2.5	Basic	Use an Interrupt to Toggle the State of an LED
		2.6	Basic	Toggle 4 I2C Controlled LEDs
		2.7	Basic	Read PSoC CapSense Button Values using I2C
		2.8	Advanced	Read PSoC Sensor Values using I2C
		2.9	Advanced	LED brightness
		2.10	Advanced	LED toggling at specific frequency and duty cycle
		2.11	Advanced	Measure Ambient Light Sensor
		2.12	Advanced	Send a value using the standard UART functions
		2.13	Advanced	Get a value using the standard UART functions
		2.14	Advanced	Display Data on the OLED Display
	03 (RTOS)	3.1	Basic	Semaphore
		3.2	Advanced	MUTEX
		3.3	Advanced	Queues
		3.4	Advanced	Timers
	04A (Essential BLE)	4A.1	Basic	Create a BLE Advertiser
		4A.2	Basic	Connect using BLE
	04B (More Advanced BLE)	4B.1	Basic	BLE Notifications
		4B.2	Basic	BLE Pairing and Security
		4B.3	Basic	Save BLE Pairing Information (i.e. Bonding)
		4B.4	Basic	Add a Pairing Passkey
	05A (Classic Bluetooth – SPP)	5A.1	Basic	Create a Serial Port Profile Project
		5A.2	Advanced	Improve Security by Adding IO Capabilities
		5A.3	Advanced	Add Multiple Device Bonding Capability
	05B			
	06 (Debugging)	6.1	Basic	Run BTSpy
		6.2	Advanced	Run the Debugger