

Sheet1

Unit	Lab	Topic
1	1A	IO – Tri-color LED
	1B	IO - Simple calculator
2	2A	Timers
	2B	State Machines – stepper motor
	2C	State Machine – Momentary button to Push On – Push Off
	2D	State based time delay
3	3A	LCD – bit banging
	3B	LCD – PMP
4	UART 4A	UART communications
	UART 4B	UART communications
	SPI 4C	SPI interface with Flash Memory
	I2C 4D	I2C interface with accelerometer
5	5S	IrDA – Reverse engineering
6	6AB	Open and Closed PI Motor speed control
7	7A	Tone Generator (IIR Filter)
	7B	Spectrum Analyzer (FFT, FIT Filter)
8	8A	2 Channel RC controller - TIMER Based
	8B	2 Channel RC controller - PWM Based