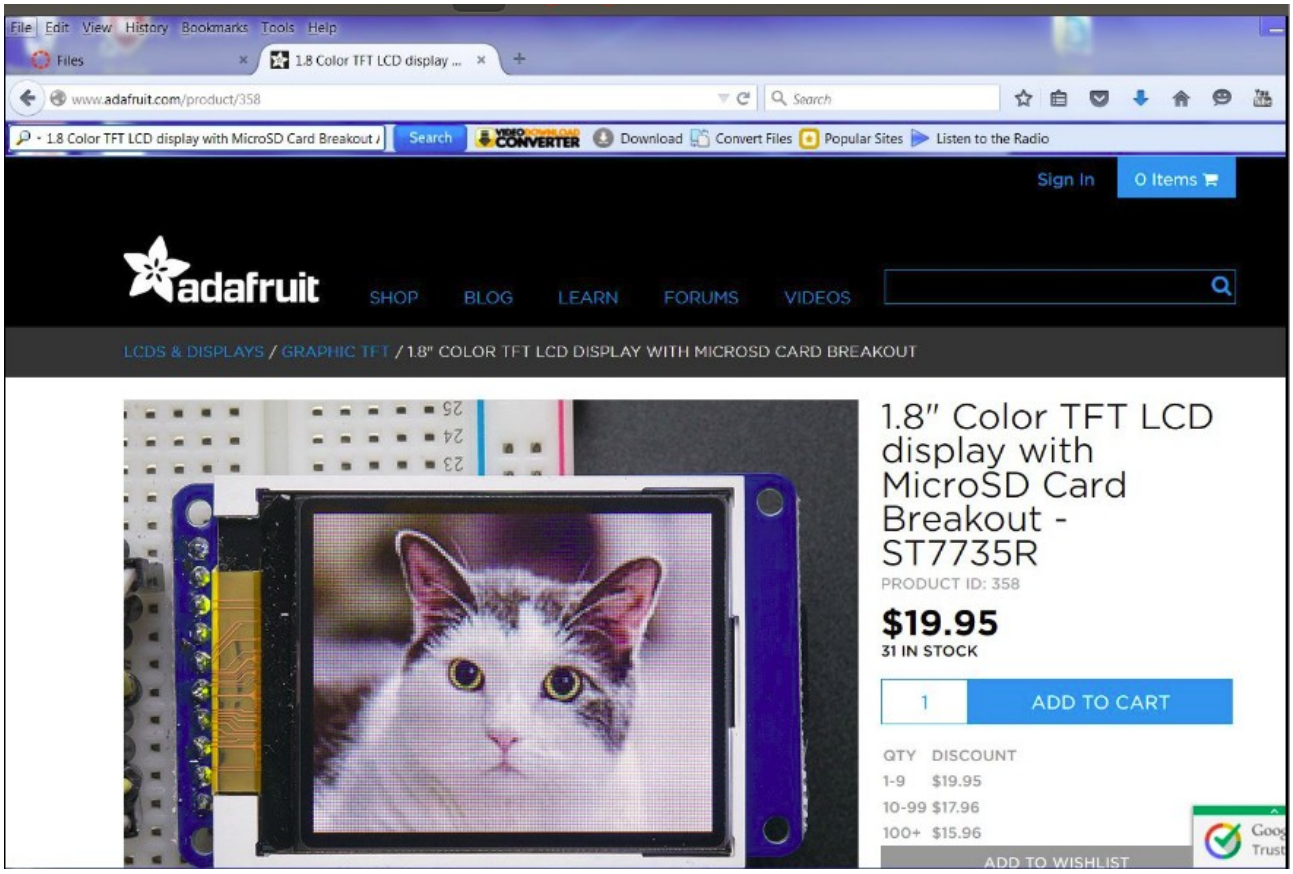
Bill of Material
Parts List I for CMPE127 F 2017 (August 2017)
Harry Li

Note: Partial List, you may need to add “glue logic” parts and other parts if needed, this BOM is for reference purpose only.

HSerial Number	Quantity and Description	Note
1	Wire Wrapping Board	Same as last semester, recommended size: 8.5X11 inches, note you may use half of that size with potential need to add the 2nd tier when adding additional components.
2	LPC Xpresso Module (ARM Cortex-M3)	Choose LPC1769 or if you prefer you may choose LPC1768 which may require different software drivers or sample programs, most of the class examples are for LPC1769.
3	AT45 or equivalent SPI interface serial FLASH	Any SPI based FLASH will do, especially these days a lot of newer ones with dual or quad SPI ports. They are good and better.
4	Wire wrapping tool kit	Same as last semester
5	DC power supply (7.5VDC 1500 mA or 9 VDC)	You can use PC power supply.
6	Bundle of color wires for wrapping	
7	SPI based color LCD display	For labs in class (1) SPI interface; (2) with through hole pin connector for easy soldering; (3) with software driver lib, such as for the controller ST7735R
8	MAX232, and MAX485	Optional, this component is an optional, but not required for this semester, if you prefer work on an extra this may be needed.
9	TSOP1236 IrDA Transceiver	Optional
10	USB to serial cable	
11	LM7805	Power regulator
12	Red LED and other “glue logic”	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