

# Learning Arduino: Interfacing with Hardware

with Zahraa Khalil

	Component Name	Quantity	Link
	Arduino Board MEGA 2560	1	<a href="https://store.arduino.cc/usa/arduino-mega-2560-rev3">https://store.arduino.cc/usa/arduino-mega-2560-rev3</a>
	Breadboard	1	<a href="https://www.amazon.com/dp/B01EV6LJ7G/ref=cm_sw_r_cp_ep_dp_je6rBbNCKARM4">https://www.amazon.com/dp/B01EV6LJ7G/ref=cm_sw_r_cp_ep_dp_je6rBbNCKARM4</a>
	Jumper wires	As needed	<a href="https://www.amazon.com/dp/B01EV47GI4/ref=cm_sw_r_cp_ep_dp_Je6rBb9GMCM0E">https://www.amazon.com/dp/B01EV47GI4/ref=cm_sw_r_cp_ep_dp_Je6rBb9GMCM0E</a>
LCD			
	16 × 2 LCD screen	1	<a href="https://www.amazon.com/dp/B071Y6JX3H/ref=cm_sw_r_cp_ep_dp_tf6rBbH599ZRK">https://www.amazon.com/dp/B071Y6JX3H/ref=cm_sw_r_cp_ep_dp_tf6rBbH599ZRK</a>
	Potentiometer 10K (variable resistor)	1	<a href="https://www.amazon.com/dp/B06XS1J63H/ref=cm_sw_r_cp_ep_dp_Bh6rBb6KQAQNX">https://www.amazon.com/dp/B06XS1J63H/ref=cm_sw_r_cp_ep_dp_Bh6rBb6KQAQNX</a>
	290 ohm resistor OR 330 ohm resistor	2	
7-Seg LED			
	Common anode 7-segment LED	1	<a href="https://www.amazon.com/dp/B01M6DRSP2/ref=cm_sw_r_cp_ep_dp_nj6rBb1GMV6X6">https://www.amazon.com/dp/B01M6DRSP2/ref=cm_sw_r_cp_ep_dp_nj6rBb1GMV6X6</a>
	290 ohm resistor OR 330 ohm resistor	6	
	MC74HC595A serial in parallel shift register	1	<a href="https://www.adafruit.com/product/450">https://www.adafruit.com/product/450</a>
Keypad			
	3 × 4 keypad	1	<a href="https://www.amazon.com/dp/B00NAY2XUS/ref=cm_sw_r_cp_ep_dp_Mn6rBbFEH34C7">https://www.amazon.com/dp/B00NAY2XUS/ref=cm_sw_r_cp_ep_dp_Mn6rBbFEH34C7</a>
	Yellow LED	1	
	Blue LED	1	
	Red LED	1	
	290 ohm resistor OR 330 ohm resistor	3	