

CSCI241-001-45637 Parts Kit

(*) LAFVIN B07CT9KVK3 Ultimate Starter Kit for MEGA 2560 – (\$42.99)

- 5pcs White LED
- 5pcs Yellow LED
- 5pcs Blue LED
- 5pcs Green LED
- 5pcs Red LED
- 1pcs RGB LED
- 5pcs 22pf Ceramic Capacitor
- 5pcs 104pf Ceramic Capacitor
- 2pcs Photoresistor
- 1pcs Thermistor
- 5pcs Diode Rectifier (1N4007)
- 2pcs Electrolytic Capacitor (10UF 50V)
- 2pcs Electrolytic Capacitor (100UF 50V)
- 5pcs NPN Transistor (PN2222)
- 5pcs NPN Transistor (S8050)
- 1pcs Tilt Switch
- 5pcs Button (small)
- 1pcs 1 digit 7-segment Display
- 1pcs 4 digit 7-segment Display
- 1pcs Sound Sensor Module
- 1pcs LCD1602 Module I2L (with pin header)
- 1pcs IC L293D
- 1pcs IC 74HC595
- 1pcs Active Buzzer
- 1pcs Passive Buzzer
- 1pcs RTC Module
- 1pcs DHT11 Temperature and Humidity Module
- 2pcs Potentiometer (10k)
- 1pcs Rotary Encoder Module
- 1pcs Joystick Module
- 1pcs Keypad Module
- 1pcs 5V Relay
- 1pcs IR Receiver Module
- 1pcs MEGA 2560 Controller Board
- 1pcs 830 Tie-Points Breadboard
- 1pcs Servo Motor (SG90)
- 1pcs Stepper Motor
- 1pcs ULN2003 Stepper Motor Driver Board
- 1pcs Prototype Expansion
- 1pcs Power Supply Module

- 1pcs HC-SR501 PIR Motion Sensor
- 1pcs Ultrasonic Sensor
- 1pcs GY-521 Module
- 1pcs 3V Servo Motor (Soldered Wire)

- 1pcs Fan Blade
- 1pcs MAX7219 Module
- 1pcs Remote

1pcs 9V 1A Power Supply
1pcs 65 Jumper Wire
1pcs Water Lever Sensor
1pcs USB Cable
1pcs 9V Battery with DC
1pcs RC522 RFID Module
10pcs Resistor (10R)
10pcs Resistor (100R)
10pcs Resistor (220R)
10pcs Resistor (330R)
10pcs Resistor (1K)
10pcs Resistor (2K)
10pcs Resistor (5K1)
10pcs Resistor (10K)
10pcs Resistor (100K)
10pcs Resistor (1M)
20pcs Female-to-male Dupont Wire

1pcs Resistance Identification Card

(*) Extra Breadboard – 830 Pin (qty: 1) – (\$2.00)

(*) Extra jumper wires (male to male) 65 assorted pieces (qty: 1) – (\$2.66)

(*) 5.1 volt 1W Zener diodes (qty: 2) – (\$0.13)

(*) 10 ohm 3 watt 1% resistor (qty: 3) – (\$0.36)

(*) TIP120 NPN Power Transistor (qty: 1) – (\$0.45)

(*) Assorted 74LSXXX ICs (qty: 1) – (\$7.50)

74LS00
74LS02
74LS03
74LS04
74LS05
74LS06
74LS07
74LS08
74LS11
74LS14
74LS32
74LS74
74LS86
74LS112
74LS123

(*) 74LS245 Octal Bus Transceiver IC (qty: 1) - \$(0.40)

(*) PC817X Optoisolator IC (qty: 3) – (\$0.18)

(*) Multi-purpose wire stripper/pliers (qty: 1) – (\$4.95)

(*) Needle nose pliers (qty : 1) – (\$1.75)

(*) NE555 Timer IC (qty: 3) - \$(0.36)

(*) LM393 Voltage Comparator (qty : 1) – (\$0.33)

Total Cost:

LAFVIN Arduino Mega Starter Kit:	\$42.99
Additional tools and components:	19.91
Sales Tax:	2.10
Bookstore processing fee:	<u>10.00</u>
Student's Cost:	\$75.00