



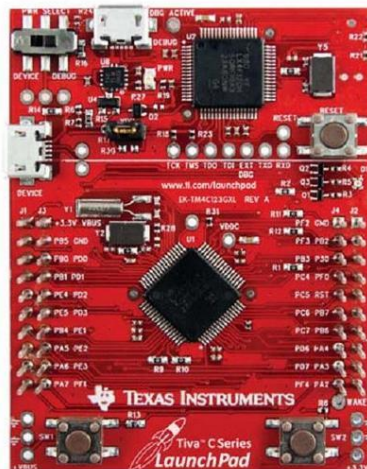
School of Electrical Engineering and Computer Science

CptS466/566: Embedded Systems

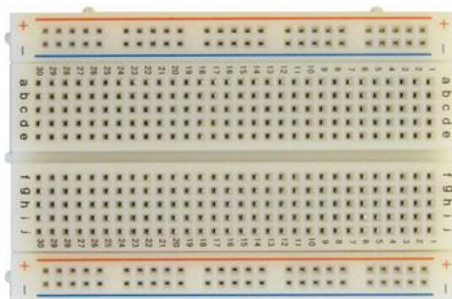
Fall 2021

Required Components List

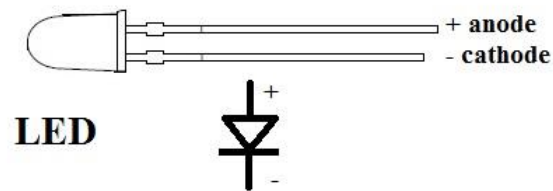
- [EK-TM4C123GXL](#)



- [Breadboard](#) and [wires](#)



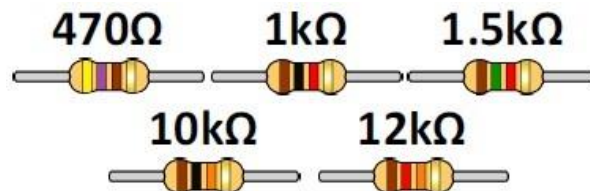
- Six LEDs ([2 red](#), [2 green](#), [2 yellow](#))



- [Six Switches](#)



- Resistors (6 from each)



- [470 Ω](#)
- [1k Ω](#)
- [1.5k Ω](#)
- [10k Ω](#)
- [12k Ω](#)

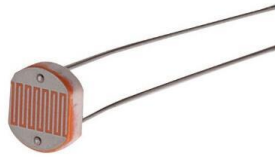
- [Audio jack](#) (DAC)



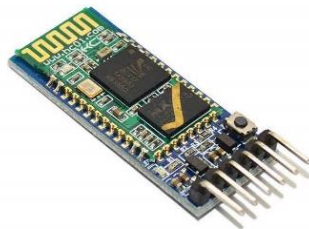
- [TMP36 - Analog Temperature sensor - TMP36](#) (Analog sensor)



- [Photocell \(CdS photoresistor\)](#) (Analog sensor)



- [HC-05 Wireless Bluetooth RF Transceiver Master Slave Integrated Bluetooth Module](#) (Bluetooth UART)



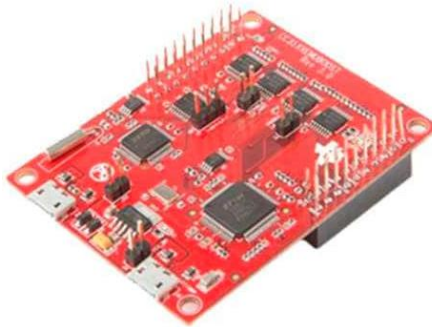
- [MPU6050 3 Axis Accelerometer Gyroscope Module](#) (I2C communication)



- [Sparkfun Ultrasonic distance sensor](#) (digital sensor)



- [CC31XXEMUBOOST](#) (IoT)



- [DC Motor - 130 Size](#) (Actuator)



- [L298N Motor Drive Controller](#) (Actuator)



- [Battery Buckle Snap Connector 15cm Clip](#) (Power)



- Any 9v Battery such as:
 - [Amazon Basics 4 Pack 9 Volt Performance All-Purpose Alkaline Batteries, 5-Year Shelf Life](#)
 - [Duracell - CopperTop 9V Alkaline Batteries - long lasting, all-purpose 9 Volt battery for household and business - 4 count](#)
 - [Duracell - CopperTop 9V Alkaline Batteries - long lasting, all-purpose 9 Volt battery for household and business - 2 count](#)

