



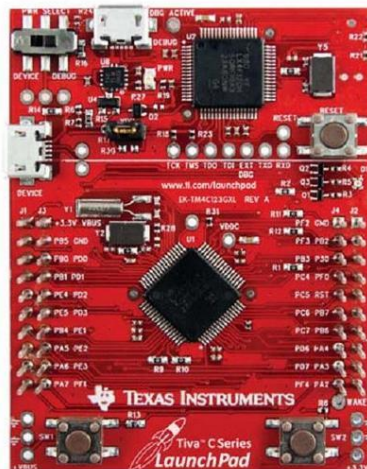
School of Electrical Engineering and Computer Science

CptS466/566: Embedded Systems

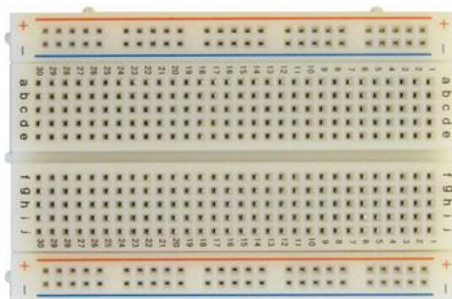
Fall 2021

Required Components List

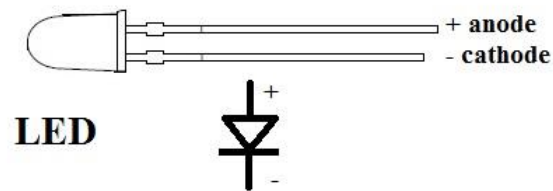
- [EK-TM4C123GXL](#)



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



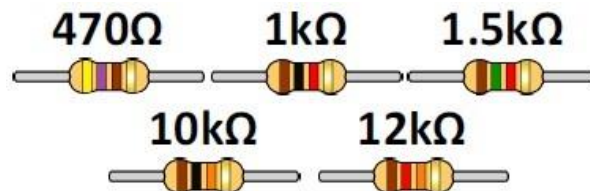
- Six LEDs (2 red, 2 green, 2 yellow)



- Six Switches



- Resistors (6 from each)



- 470 Ω
- 1k Ω
- 1.5k Ω
- 10k Ω
- 12k Ω

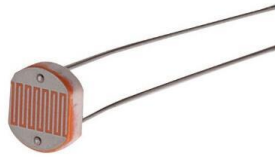
- Audio jack (DAC)



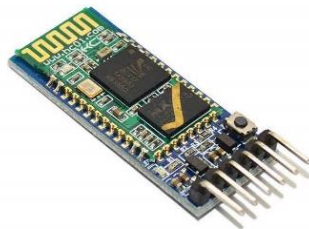
- TMP36 - Analog Temperature sensor - TMP36 (Analog sensor)



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



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



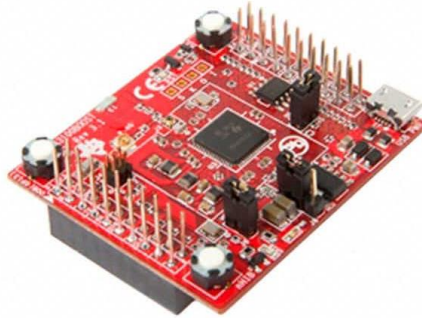
- [MPU6050 3 Axis Accelerometer Gyroscope Module](#) (I2C communication)



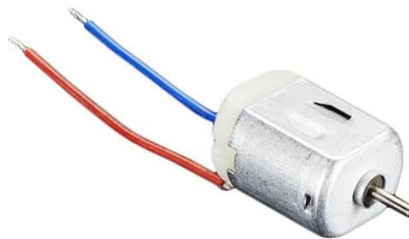
- [Sparkfun Ultrasonic distance sensor](#) (digital sensor)



- [CC3100BOOST](#) (IoT) (Optional Project)



- [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](#)

