



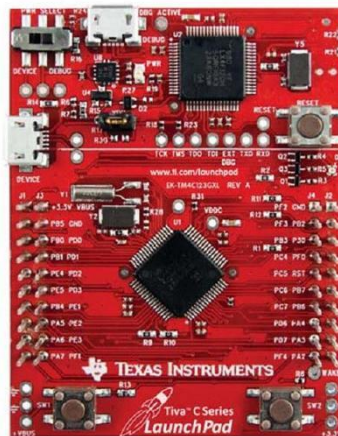
School of Electrical Engineering and Computer Science

CptS466/566: Embedded Systems

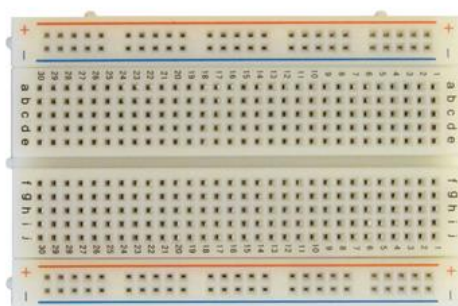
Fall 2021

Required Components List

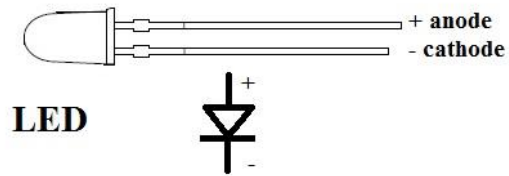
- [EK-TM4C123GXL](#)



- Breadboard and [wires](#)



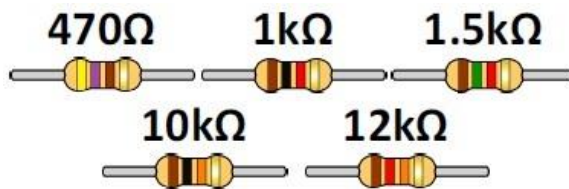
- Six LEDs (2 red, 2 green, 2 yellow)



- Six Switches



- Resistors (6 from each)



- Audio jack (DAC)



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



- Photocell (CdS photoresistor) (Analog sensor)



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



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



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



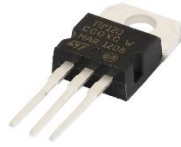
- [DC Motor - 130 Size](#) (Actuator)



- [1N914 Diode](#) (Actuator)



- TIP120 NPN Darlington Transistor (Actuator)



- Battery Buckle Snap Connector 15cm Clip (Power)



- Any 9v Battery such as:
 - [Duracell - CopperTop 9V Alkaline Batteries - long lasting, all-purpose 9 Volt battery for household and business - 2 count](#)
- [CC3100BOOST](#) (IoT) (Optional Project)



Please purchase the following items

Components	Price
EK-TM4C123GXL	15.59
Wires	6.98
Audio jack	0.88
TMP36	1.71
MPU6050	5.99
Ultrasonic Sensor	3.95
Bluetooth Module	7.99
DC Motor	1.95