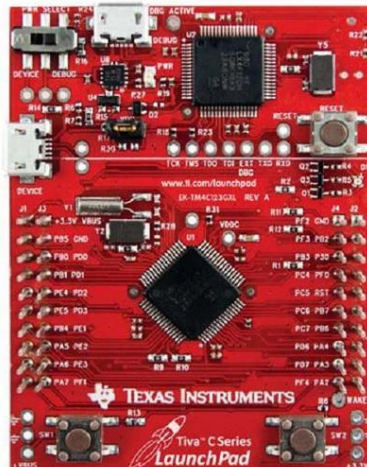**School of Electrical Engineering and Computer Science**

CptS466/566: Embedded Systems
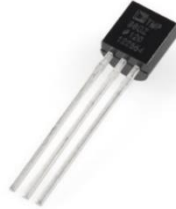
Fall 2021

<u>Required Components List</u>

- EK-TM4C123GXL

- Wires
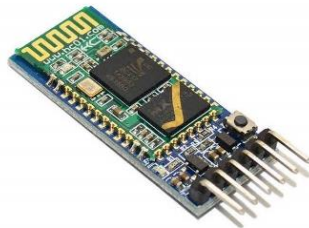
- Audio jack (DAC)

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

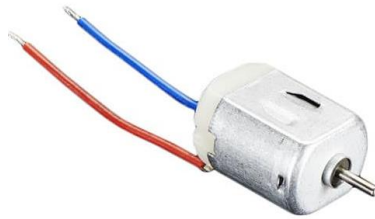- HC-05 Wireless Bluetooth RF Transceiver Master Slave Integrated Bluetooth Module (Bluetooth UART)

- MPU6050 3 Axis Accelerometer Gyroscope Module (I2C communication)

- Sparkfun Ultrasonic distance sensor (Digital sensor)

- DC Motor - 130 Size (Actuator)

- 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

- CC3100BOOST (IoT) (Optional Project)