**Computer Science 1214**

**Intro to Unit 4 Activity**

1. For each of the following components, find an image and provide a brief explanation of how each can be utilized in a real-world application.
   * + - 1. Ultrasonic range finder
         2. Moisture sensor
         3. Potentiometer (slider)
         4. Potentiometer
         5. Vibration sensor
         6. Joystick
         7. PIR sensor
         8. Microphone sensor (not the type a singer would use)
         9. Momentary switch
         10. Photovoltaic sensor
         11. Explorer Hat Pro
         12. LED

m. Buzzer

n. Temperature sensor

1. We will be using two types of motors:

DC

Servo

* 1. give a brief definition of each
  2. find 3 images of examples of each type of motor
  3. what would be an appropriate application for each motor?

1. What are the advantages and disadvantages of using the Explorer Hat Pro?

<https://shop.pimoroni.com/products/explorer-hat>