MIT AI2 Camp 204

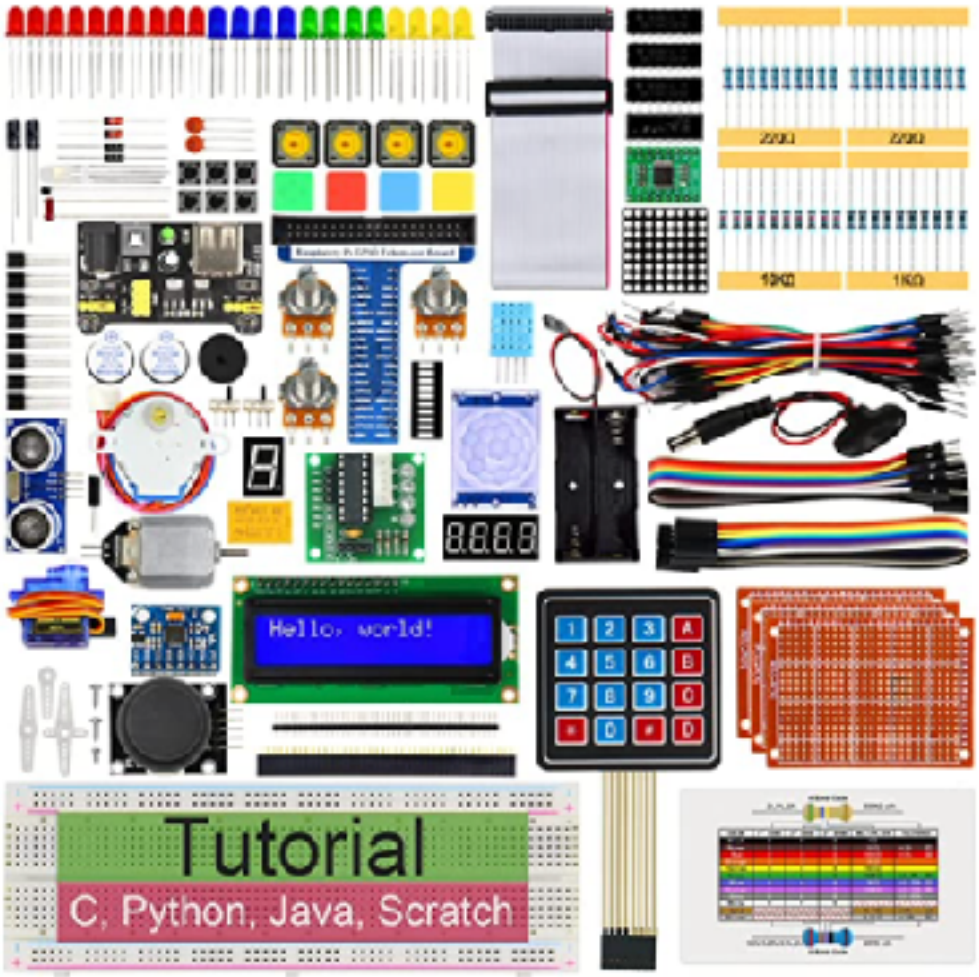
Required Equipment: You must have a PC (Windows/Mac). A Google account is required to use MIT App Inventor, so please create one if you do not have one already. Prior to our first class, you must install MIT App Inventor on your mobile device; installation instructions are available at https://appinventor.mit.edu/explore/ai2/setup-device-wifi.

In addition to your PC (Windows/Mac) , you must have an **Android** mobile/tablet device. The iOS will not work! Beside make sure you have:

1. CanaKit Raspberry PI Kit

CanaKit Raspberry Pi 4 Starter Kit

2. [Freenove Parts/Device Kit for Raspberry PI]

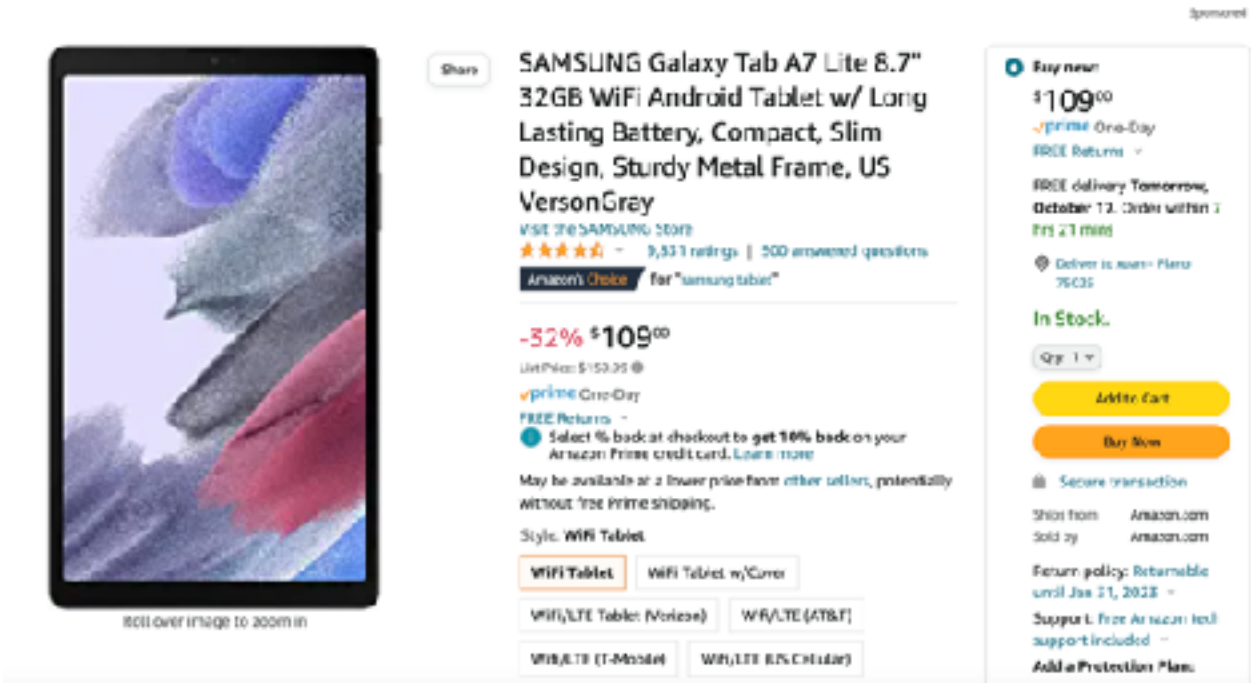


3. Accessories including a PC monitor(can connect through HDMI), wired USB mouse, and a wired USB keyboard

4.

[Dorhea 5 Pcs SG90 Micro Servo Motor]

5. Android Tablet (if have other android device, don't need to purchase)

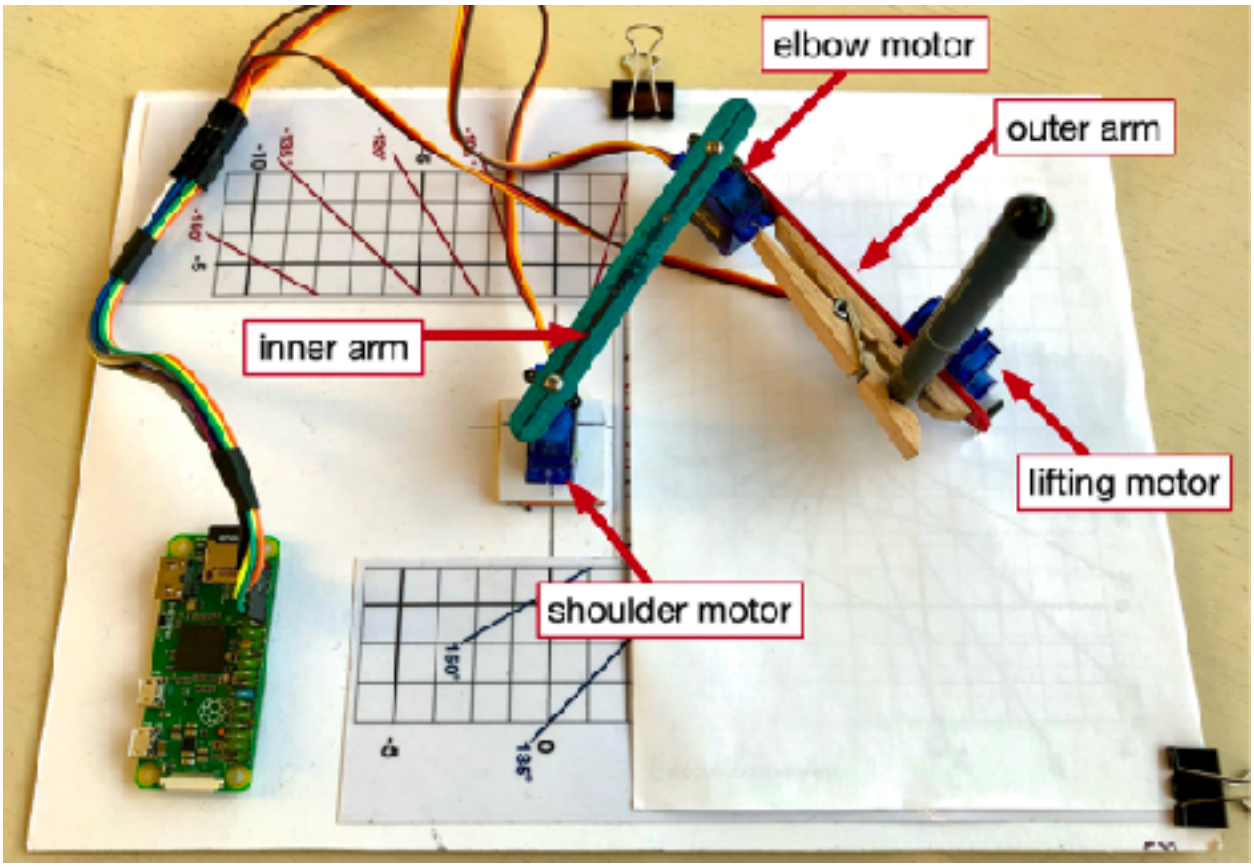


[SAMSUNG Galaxy Tab A7 Lite 8.7" 32GB WiFi Android Tablet]

Final Project — Components and materials

You'll need:

- a Raspberry Pi
- three servo motors
- sticks or stiff card to make two arms, each about 10cm long
- jumper wires and GPIO pin header to connect the Pi to the servos
- a clothes peg
- a board or sheet of card, about A4 size
- strong adhesive(Super Glue) or a hot glue gun

1.2. Assembly

The image below shows the basic construction of the BrachioGraph plotter and the names of some key parts. In this example, the drawing sheet is A5 size.