

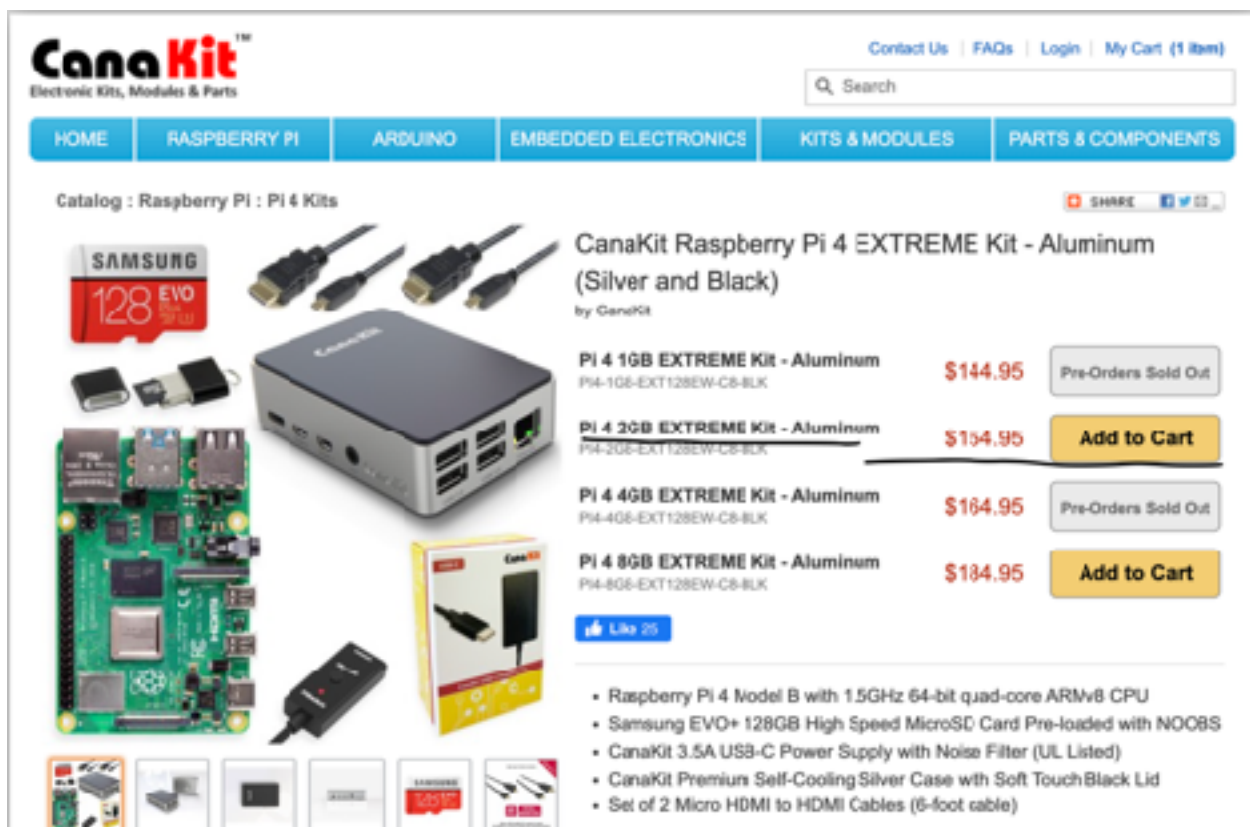
MIT AI2 Camp 204

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



CanaKit
Electronic Kits, Modules & Parts

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Catalog : Raspberry Pi : Pi 4 Kits

SHARE

CanaKit Raspberry Pi 4 EXTREME Kit - Aluminum (Silver and Black)
by CanaKit

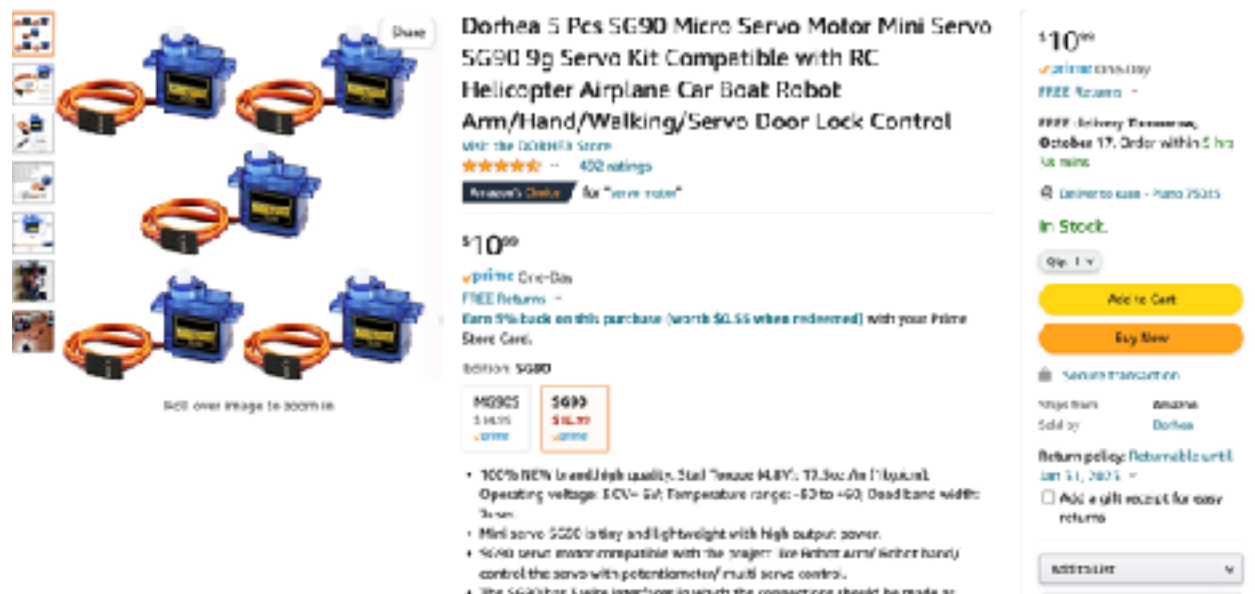
Kit Name	Price	Availability
PI 4 1GB EXTREME Kit - Aluminum PI4-1GB-EXT128EW-C8-BLK	\$144.95	Pre-Orders Sold Out
PI 4 2GB EXTREME Kit - Aluminum PI4-2GB-EXT128EW-C8-BLK	\$154.95	Add to Cart
PI 4 4GB EXTREME Kit - Aluminum PI4-4GB-EXT128EW-C8-BLK	\$164.95	Pre-Orders Sold Out
PI 4 8GB EXTREME Kit - Aluminum PI4-8GB-EXT128EW-C8-BLK	\$184.95	Add to Cart

Like 25

- Raspberry Pi 4 Model B with 1.5GHz 64-bit quad-core ARMv8 CPU
- Samsung EVO+ 128GB High Speed MicroSD Card Pre-loaded with NOOBS
- CanaKit 3.5A USB-C Power Supply with Noise Filter (UL Listed)
- CanaKit Premium Self-Cooling Silver Case with Soft Touch Black Lid
- Set of 2 Micro HDMI to HDMI Cables (6-foot cable)

4.

[Dorhea 5 Pcs SG90 Micro Servo Motor](#)



Dorhea 5 Pcs SG90 Micro Servo Motor Mini Servo SG90 9g Servo Kit Compatible with RC Helicopter Airplane Car Boat Robot Arm/Hand/Walking/Servo Door Lock Control

Visit the Dorhea Store

★★★★★ 402 ratings

Amazon's Choice for "servo motor"

\$10.00

✓prime One-Day
FREE Returns

Earn 5% back on this purchase (worth \$0.55 when redeemed) with your Prime Store Card.

Bottom: SG90

M029C5 \$16.95 ✓prime

\$6.99 \$16.99 ✓prime

- 100% R&D brand high quality, Start Torque 4.8KG, 12.3kg/in (11kg/cm).
- Operating voltage: 3.0V~6V; Temperature range: -20 to +60; Dead band width: 3mm.
- Mini servo SG90 is tiny and lightweight with high output power.
- SG90 servo motor compatible with the trigger size Robot Arm/Robot hand/ control the servo with potentiometer/multi servo control.
- The SG90 has 3 wire interfaces in which the connection should be made as

\$10.00

✓prime One-Day
FREE Returns

FREE delivery Tomorrow, October 17. Order within 5 hrs 16 mins

Deliver to: usa - Plano 75015

In Stock.

Qty: 1

Add to Cart

Buy Now

Secure transaction

Ships from Amazon

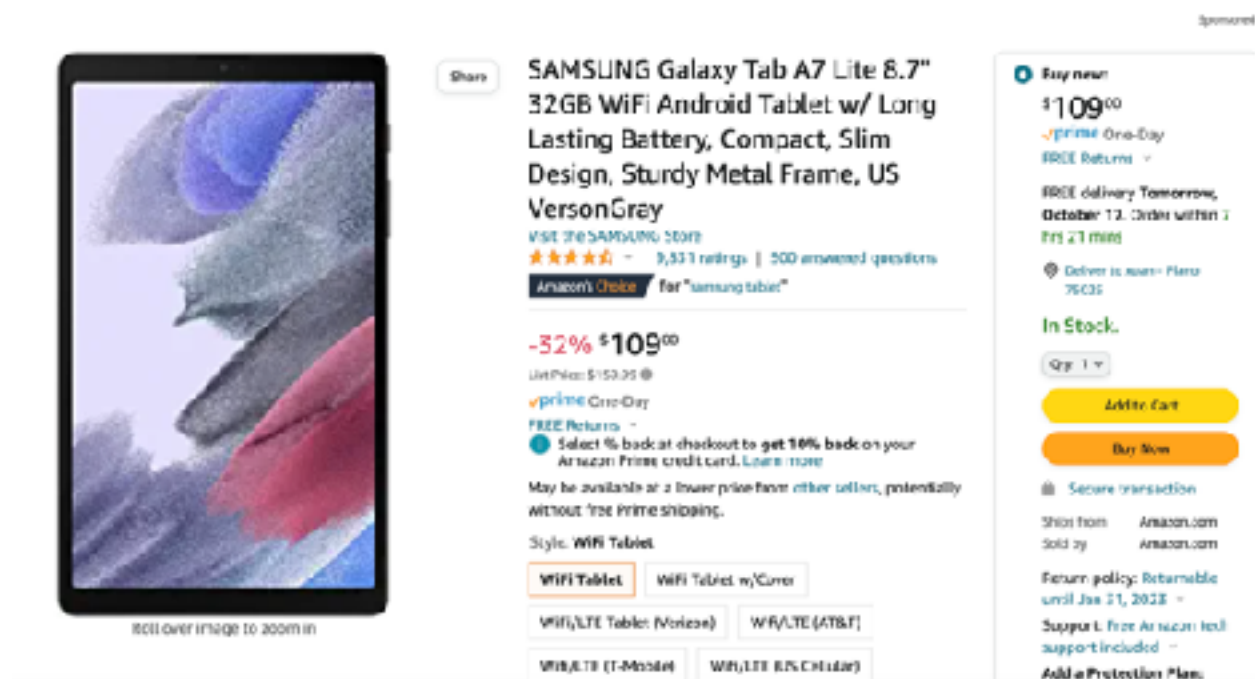
Sold by Dorhea

Return policy: Returnable until Jan 31, 2023

☐ Add a gift receipt for easy returns

ADDRESS

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



SAMSUNG Galaxy Tab A7 Lite 8.7" 32GB WiFi Android Tablet w/ Long Lasting Battery, Compact, Slim Design, Sturdy Metal Frame, US Version Gray

Visit the SAMSUNG Store

★★★★★ 9,533 ratings | 500 answered questions

Amazon's Choice for "samsung tablet"

-32% \$109.00

List Price: \$163.25 @

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FREE Returns

Select % back at checkout to get 10% back on your Amazon Prime credit card. Learn more

May be available at a lower price from either seller, potentially without free Prime shipping.

Style: WiFi Tablet

WiFi Tablet WiFi Tablet w/Carrier

WiFi/LTE Tablet (Verizon) WiFi/LTE (AT&T)

WiFi/LTE (T-Mobile) WiFi/LTE (Sprint)

\$109.00

✓prime One-Day
FREE Returns

FREE delivery Tomorrow, October 17. Order within 1 hrs 27 mins

Deliver to: usa - Plano 75015

In Stock.

Qty: 1

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Ships from Amazon.com

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Return policy: Returnable until Jan 31, 2023

Support: Free Amazon text support included

Add a Protection Plan

[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.

