

Ordering Components for LAB

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- You will need the following components for the labs in ECE 568

Component	Description	Link
Assembled Adafruit Huzzah32 – ESP32 Feather Board (<i>with Stacking Headers installed</i>)	Microcontroller Board	https://www.adafruit.com/product/3619
Adafruit MPU-6050 6-DoF Accel and Gyro Sensor - STEMMA QT Qwiic	Sensor board	https://www.adafruit.com/product/3886
STEMMA QT / Qwiic JST SH 4-pin to Premium Male Headers Cable - 150mm Long	Cable to connect sensor board to the microcontroller board	https://www.adafruit.com/product/4209
Half size breadboard (if you already have a breadboard, you can skip this)	To hold the microcontroller board	https://www.adafruit.com/product/64
USB cable - USB A to Micro-B - 3 foot long (if you already have such a cable, you can skip this)	Cable to connect the board to a host PC and download code	https://www.adafruit.com/product/592
Items below this are miscellaneous components. Feel free to reuse any that you already have. You might be able to borrow these from a friend or buy them locally for cheap. Of course, they are available online and below are some links in case you need them.		
5mm LEDs	This is a 25 pack, you only need two or three (any color is OK)	https://www.adafruit.com/product/4203
220 Ohm resistors (for current limiting the LEDs)	This is a 25 pack, you only need two or three (a slightly lower or higher resistance is OK)	https://www.adafruit.com/product/2780
Male/Male Jumper Wires	This is a 20 pack, you only need two or three	https://www.adafruit.com/product/1957
Tactile push-button switches	This is a 20 pack, you only need two or three	https://www.adafruit.com/product/4183

Helpful tips: (a) Creating an account on Adafruit before ordering lets you look up order history, order status, invoice easily, (b) many of these are also available from other websites (e.g., Digikey, Mouser, and often even Amazon) - you are free to buy from anywhere these are in stock, and (c) please pick a shipping method that gets you the components by Feb. 20