

To get started use this:

1. These devices are based on the Adafruit M0. Hence, please follow instructions on this webpage (and following webpages) to install Arduino and setup your UWB devices. (<https://learn.adafruit.com/adafruit-feather-m0-basic-proto/setup>)
2. Then do what Haige said.
3. Then use the files and libraries Yifeng might have given you. I have also attached the libraries for your reference. These libraries sit in the My Documents/Arduino/libraries/ folder.
4. The 6FitAPart boards are based on Adafruit Feather M0. So select the correct board from the Arduino IDE.

A very useful information is that the board has a reset button. If you double press the button, the board enters a bootloader mode which speeds up upload of new code onto the board (through the IDE). It is also possible to just copy paste the 3 important files in the bootloader mode. A single click of that button merely resets the microcontroller and it restarts by running setup() once again.

Then, install this library linked below

[https://gtvault-my.sharepoint.com/personal/hchen425\\_gatech\\_edu/Documents/Microsoft%20Teams%20Chat%20Files/libraries.zip](https://gtvault-my.sharepoint.com/personal/hchen425_gatech_edu/Documents/Microsoft%20Teams%20Chat%20Files/libraries.zip)

#### Arduino SAMD Boards (32-bits ARM Cortex-M0+)

by **Arduino** version **1.8.2 INSTALLED**

Boards included in this package:

Arduino MKR WiFi 1010, Arduino Zero, Arduino MKR1000, Arduino MKRZERO, Arduino MK 1310, Arduino MKR GSM 1400, Arduino MKR NB 1500, Arduino MKR Vidor 4000, Arduino Adafruit Circuit Playground Express.

[Online Help](#)

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#### Adafruit SAMD Boards

by **Adafruit** version **1.5.7 INSTALLED**

Boards included in this package:

Adafruit Feather M0, Adafruit Feather M0 Express, Adafruit Metro M0 Express, Adafruit Trinket M0, Adafruit ItsyBitsy M0, Adafruit pIRkey M0, Adafruit Metro M4, Adafruit Grand Express, Adafruit Hallowing M0, Adafruit NeoTrellis M4, Adafruit PyPortal M4, Adafruit P M4, Adafruit BLM Badge, Adafruit QT Py, Adafruit Feather M4 CAN.

[Online Help](#)

[More Info](#)

After you are done with step 1, go to Board Manager and install these two Board libraries. Make sure you choose the correct version.

Once you have set up the Arduino IDE, then install the following zip file. There are two sets of code. Here is what you need to do: (1) Upload the anchor code to 2 devices. (2) Take out the SD card from those two devices. Open the ID.txt file and change the content to "0" and "1" for the two devices respectively. This will set their anchor ID. If you don't have a SD card reader, let me know. You can hard code the anchor ID as well. (3) Turn both devices on. You should see the yellow LED blinking. The yellow LED is indication for the Initiator device. The anchors take turns to become Initiator currently. (4) Upload the Tag code to the third device. Then you should see TDoA values printing on the Serial port.

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