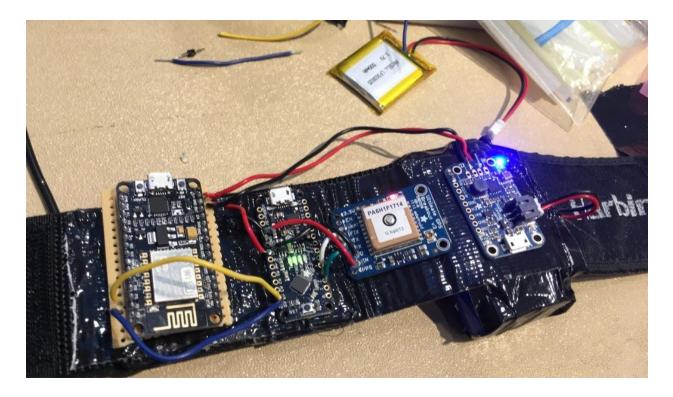
## limband

BigRed\\Hacks Fall 2017



Documentation of this project was not great, but here's a photo of our project's hardware. The black band was the wearable that used velcro to secure around a user limb, hence limb-band = limband.

The boards from left to right are:

## NodeMCU/ESP8266

- -> create Wi-fi access point, host website to collect user data
- -> communicate with MetroMini to obtain GPS data

## Adafruit MetroMini

-> connect Ultimate GPS with the NodeMCU (did this because the software libraries were incompatible)

## Adafruit Ultimate GPS

- -> track user location, which is used to calculate speed and distance BoostConverter
  - -> boost 3.7V battery to 5V

Unpictured is the NeoPixel strip we connected to the band to use as a workout display. We programmed the NeoPixel to display multiple sequences to convey different information to the user throughout the workout.