collect_pico_data

Inputs: Button press

Outputs: Array of analog values, length of array

raw_data_to_pc

Inputs: Array of analog values, length of array Outputs: Wifi Signals of array of analog values, length of array

raw data from pico

Inputs: Wifi Signals of array of analog values, length of array Outputs: Array of analog values, length of array

convert_to_song

Inputs: Array of analog values, length of array Outputs: Array of frequencies, length of array

send_song_to_pico

Inputs: Array of frequencies, length of array Outputs: Wifi Signals of array of frequencies, length of array

get_song_from_pc

Inputs: Wifi Signals of array of frequencies, length of array Outputs: Array of frequencies, length of array

play_song

Inputs: Array of frequencies, length of array Outputs: PWM signals to piezo

PC Global Vars

- Pico IP

Pico Global Vars

- Clock freq: 2Hz
- Computer IP

Photoresistor

Obtains analog values from light and relays to Pico

Button

 On button press, start the chain of recording, converting, and playing sound

Piezo

 Will play frequency values from the Pico after it's been converted on the conductor