Block Diagram

Inputs Firmware Outputs ADC Channel LED Y Brighdness 100 Hz Sinusoid Modulated ±5-50 mV ADC Channel LED 2 Brightness Madulated 500 Hz Sinusoid Calculate RMS 110-150 mV Bluetooth BAAS for Channels GATT on Phone DC Bottery Input 0-3.7 V Calculate Pwm LED 3 1 Hz Blink Period for Channels LNo Measurament VBUS Input if VBUS High USB-C Cable Read ADC Channel for DC Button 4 Press Bluetooth Notification for Saving RMS Masure RMS Dota For RMS Data Array every second by both AC Channels Button 2 Pass for sonding Detect VBUS AMS omay on or off