Wireless Event Manager

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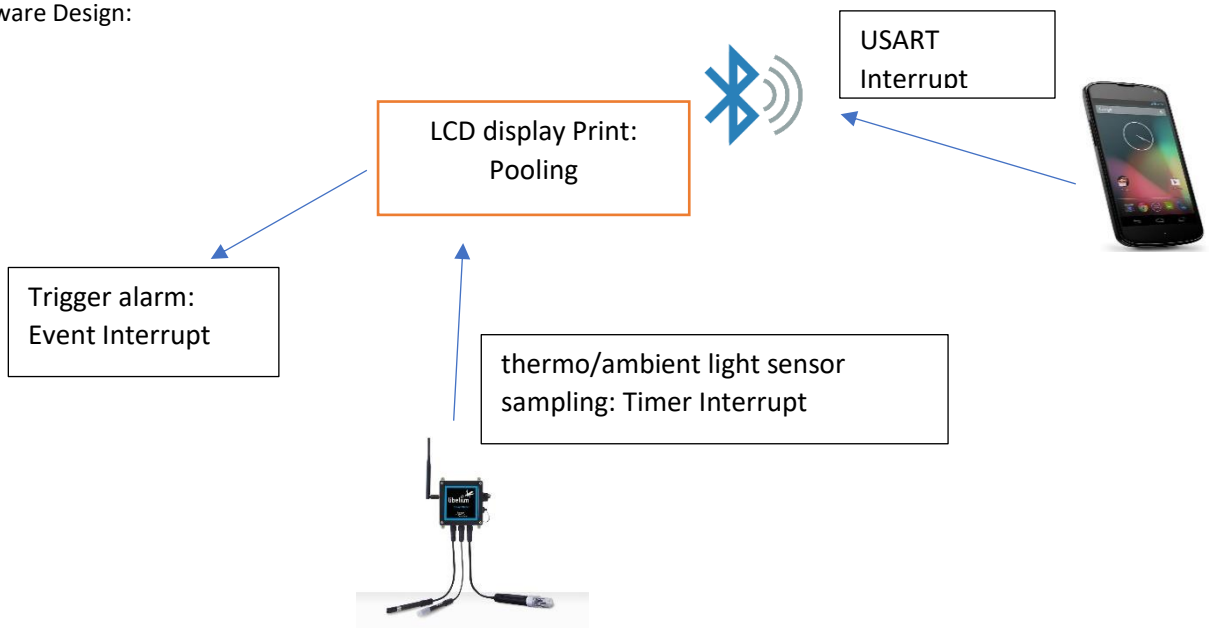
Overview:

The goal is to design and prototype a compact device used in office and home at convenience. Such device displays real time calendar, clock, peripheral sensing information, event alarm. The control and access of these information can be interfaced through the phone on bluetooth. Furthermore, time is synchronized automatically upon connection; Information of ambient light helps to adjust the back light of screen intelligently during night time; room temperature will also be sampled and displayed; and events triggers notification on phone as an email. Under development, this device can be applied to any IOT environment with bluetooth connection.

Peripherals:

Function	Peripherals	Connection
display	ILI9341 TFT LCD	SPI
control	phone interface/push buttons	Bluetooth – USART
periphral sensor	TC74 temperature sensor/AP3216	I2C
calendar/clock	onboard RTC module	N/A

Software Design:



Group Responsibilities:

1. Finn will be responsible for developing an Android app for the device interface. He will also development the data sampling on thermo and ambient sensor

2. Luyao will be responsible for developing the firmware for LCD display, bluetooth transmission and receival. He will also model shell for thie device for 3D printing.