PROJECT DESIGN PHASE-II

Team ID	PNT2022TMID36635
Project Name	IOT BASED SAFETY GADGET FOR CHILD MONITORING AND NOTIFICATION
Maximum Marks	4 Marks

TECHNOLOGY STACK ARCHITECTURE

The device can be activated by just pressing the trigger button in an emergency. The method which works behind this is as explained below:

- In fig.1 smart Hand Band consists of a GPS module, that is activated by retrieving its location based on its latitude and longitude. Then that location is fed to Microcontroller, which sends that data to our CubeSat through the LoRatransceiver.
- In fig.2 CubeSat includes a LoRa transceiver to receive the data from the Hand band and then data will be sent to the base station via Microcontroller and LoRatransceiver.
- In fig.3 The base station has the hardware of the LoRa receiver to receive the data from the CubeSat and has a GSM module to call and send an SMS to the police department and also the user's parents. The SMS consists of a live location and a "Help Me" text.
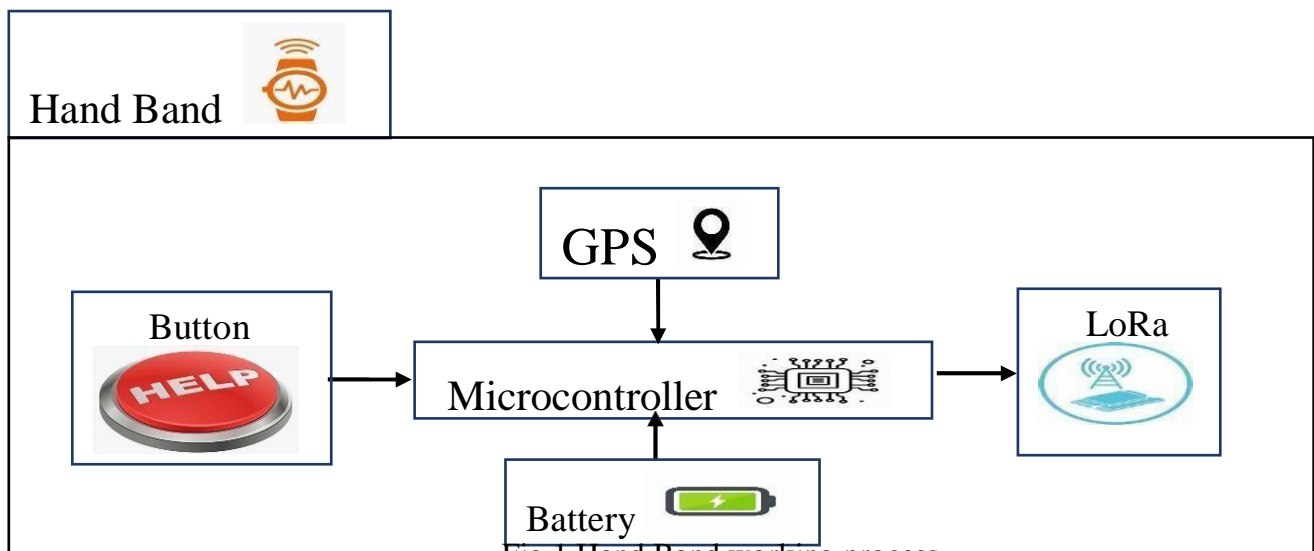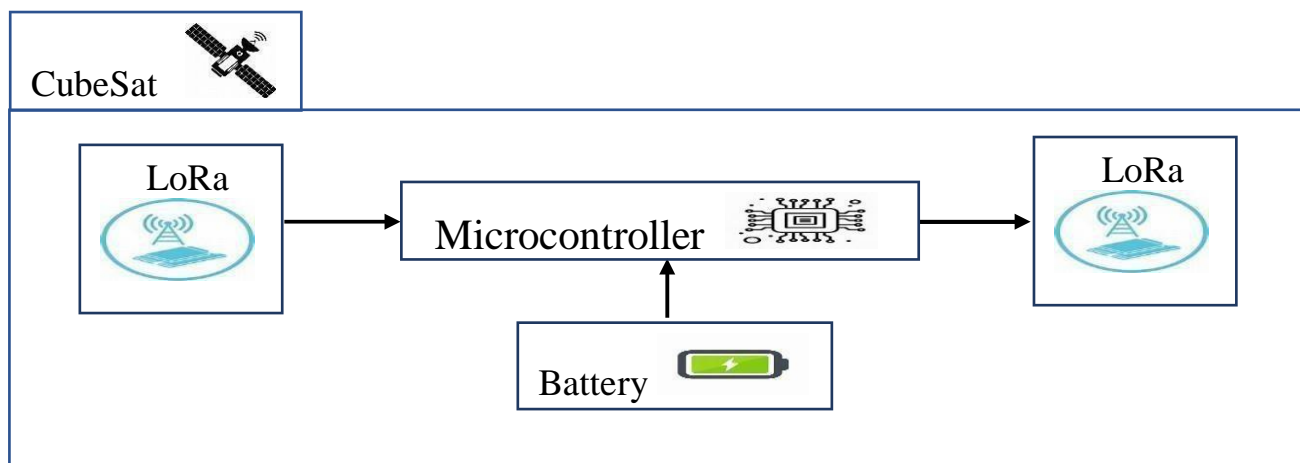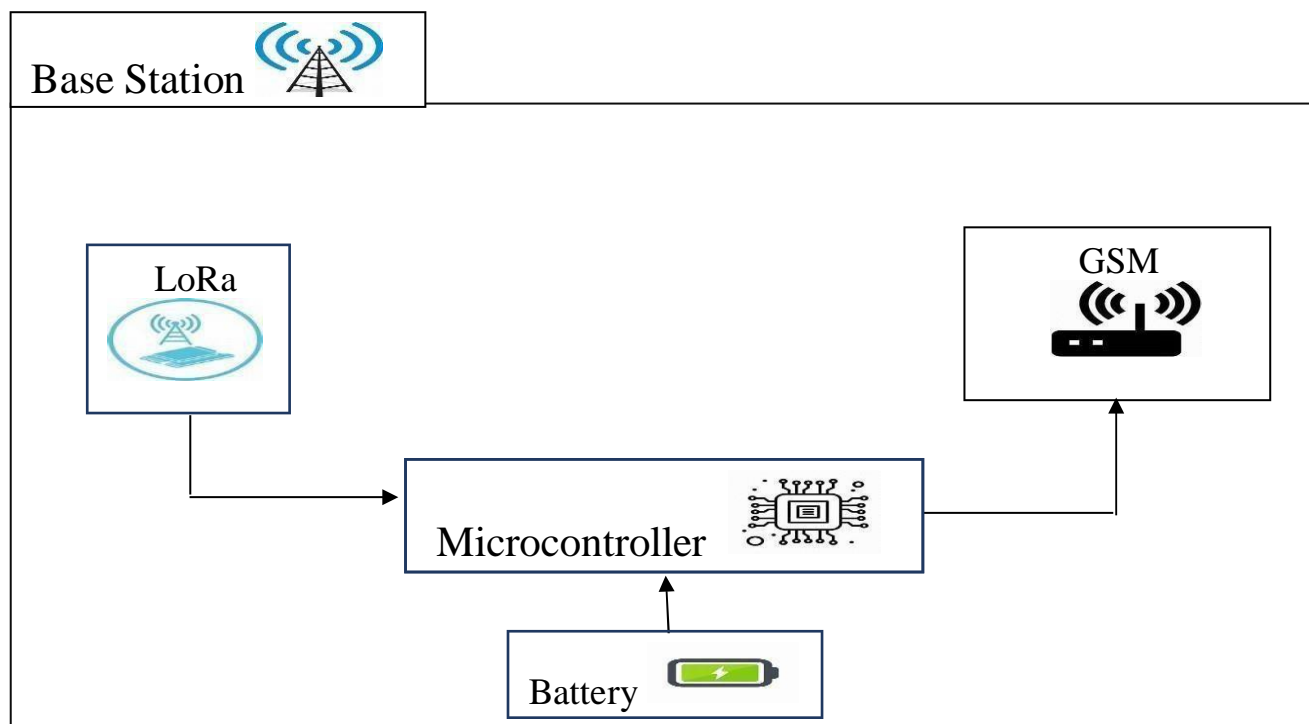

Fig.1 Hand Band working process

CubeSat working process

Base station working Process