

Arduino Health Monitor With Emergency Prevention

This will help you know and keep track of how your loved ones/patient even when you are not around. It senses temperature and heart rate per minute to assess their health and sends an emergency message to a set up contact incase anything goes out of range. It also displays the data on the OLED and also on an app on your phones.

Materials Required:

1. Arduino Uno
2. Breadboard
3. Pulse sensor (HW01)
4. Temperature sensor (DS18B20)
5. Bluetooth Module (HC-05)
6. GSM Module (SIM900A / or any other)
7. OLED (SH1106)
8. Jumper Wires
9. Etc.

Software and Libraries Required:

1. Arduino IDE
2. U8glib Library (For displaying on OLED)
3. OneWire Library (For SPI connection of temperature sensor)
4. Dallas Temperature sensor Library
5. Software Serial Library
6. Wire Library
7. GPRS Shield Arduino Library (Optional)

Pin Connections:

- Refer code or diagram

Code:

- Attached, along with all other files required.

Demonstration:

- A videos has been attached to show the proper working of the project.