Consent Form for Wearable Health Monitoring Device

**Project Overview**

We are creating a wearable device that collects data to analyze the user's health and provide recommendations, as well as for use in emergency situations. The device will utilize the following sensors:

- BME680 Environmental Sensor (I2C)

- I2C Display (I2C)

- MAX30205 Human Body Temperature Sensor (I2C)

- NEO-6M GPS Module (UART/Serial)

- MAX30102 Heart Rate and Pulse Oximeter Module (I2C)

- MPU6050 Accelerometer and Gyroscope (I2C)

**Purpose of Data Collection**

The data collected by the wearable device will be used for the following purposes:

1. Health analysis and monitoring: The device will track various health metrics, such as body temperature, heart rate, and physical activity, to provide the user with insights into their overall health and well-being.

2. Emergency situation response: In the event of an emergency, the device's GPS and other sensors can be used to provide location and health information to emergency services, potentially improving response times and outcomes.

3. Exercise and activity recommendations: The device will analyze the user's activity data and provide personalized recommendations for exercises and activities to improve their health and fitness.

**Data Collection and Usage**

By signing this consent form, you agree to the following:

1. Data collection: The wearable device will continuously collect data from the various sensors listed above. This data will be stored securely on the device and may be transmitted to a connected smartphone or other device for further analysis and processing.

2. Data usage: The collected data will be used for the purposes outlined above, including health analysis, emergency response, and exercise recommendations. The data will be treated confidentially and will not be shared with any third parties without your explicit consent.

3. Data storage and retention: The data collected by the device will be stored securely and will be retained for a period of [X] years, after which it will be securely deleted. You have the right to request the deletion of your data at any time.

4. Risks and benefits: While the device is designed to be safe and non-invasive, there may be some minor risks associated with wearing the device, such as skin irritation or discomfort. The potential benefits of using the device include improved health monitoring, emergency response capabilities, and personalized recommendations for health and fitness.

**Consent and Acknowledgement**

By signing this consent form, you acknowledge that you have read and understood the information provided, and you agree to participate in the project and allow the collection and use of your data as described above.

You have the right to withdraw your consent at any time by contacting the project team. If you have any questions or concerns, please do not hesitate to ask.

Participant Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Participant Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_