

## **ABSTRACT**

With the development of the world of E-Health today emerged a variety of sensors with different functions. There are sensors that can record the activity of the heart in a person within a certain time, called the sensor Electrocardiograph (ECG). Of course with this sensor tool can greatly help doctors to find out diagnostic information on the heart. In this Final Project focused how the use of ECG sensors in obtaining data and also monitor ECG signals using a microcontroller.

The simulation will be done using DFRobot Heart Rate Monitor Sensor SKU: SEN0213, Arduino Uno, Wido WIFI IoT. By using C language on microcontroller programming and using Arduino IDE, ECG signal activity can be monitored easily.

**Keywords** : Sensor Electrocardiogram (ECG), Arduino Uno, DFRobot Heart Rate Monitor Sensor SKU:SEN0213, Wido WIFI IoT.