Bobby’s Summary & Expectations

Companion (Dog) Owner (You) Robot (Bobby)

Note: The following features have been gathered from personal experience and Extended Research. The robot is designed to take care of our companions that stay at home while the owner is away. There are a lot of key features that must be included to have the robot function properly and securely. First before anything, Safety. The safety of the companion is top priority and with that in mind we need to start by making sure that the technical integrity is safe from accidental or intentional damage by the companion. This will reduce the risk of shock, Fires, and even component failure that may lead to injury or even death to the companion or Owner if present. This will be done by creating a strong shock resistant and liquid proof structure on the robot itself. As far as technical integrity, the components need to have redundancy in case of failure and an alert system to make the owner aware of the issue. Next on the list is the key features that will keep your companion stay safe and happy while you are away, it will keep the owner happy and have peace of mind. These key features are going to be listed below.

* Ability to detect temperature and humidity
* Ability to detect high Carbon Monoxide gases
* Listen to when the companion is Barking
* Heart Rate Monitoring (Integrated on the collar that comes with package)
* collar with IR Modul that helps robot find the companions
* Checkup times on the companion that can be customized via Application (IOS & Android)
* Camera to let owner see companion at any given time while having network access (Application)
* Robot must be able to navigate around home with sensor that help with obstacles and vertical steps using ultrasonic sensors.
* Minimum 12-hour standby battery and will go to the charging station automatically using an IR module When charge percentage is below 25 percent but will still be able to operate all its features simultaneously.
* When any sensor is faulty or connection is lost, the robot will make the owner aware as soon as connection is established via the application, meanwhile it’s not connected to the network the robot will always be right next to the companion.
* The robot will send reports to the owner of the average temperature, Humidity, Carbon Monoxide levels and the amount of times the dog barked every scheduled time. (Customized Via Application)
* The robot will move next to companion and send a notification to the owner when the dog barks, Temperature or humidity is out of range, or when Carbon Monoxide Levels are too High. When notification tab is pushed on the phones the application will open and display the camera of the robot to watch the dog with a message describing what triggered it. (In case of emergency the Robot or owner can contact Officials via the application) – Fires, Gases, Break-ins, Etc.
* Phone applications will have a user-friendly Graphical interface that will display all information that is given by the robot as well as a menu tab that will allow the user to customize check up times, Barking sound threshold, and Max or Minimum temperatures. (Carbon Monoxide Threshold will be standard by application and will not be customizable)