ABSTRACT

Smart Follower Suitcase is a project that was deliberately built with the aim of making it easier for suitcase users who want to travel long distances without having to pull their luggage. Smart Follower Suitcase is designed so that the suitcase can follow the user automatically without having to be pulled by the user. In the system, Smart Follower Suitcase utilizes the Object Detection application and the camera on an Android smartphone in carrying out a process, namely image processing. The controller used is the Arduino Uno which plays a role in regulating the running of the system or acting as the brain, in addition to the communication media between the Smartphone and the Arduino Uno, there is a HC-05 bluetooth module installed on the Arduino. In this project, ultrasonic sensors are used to determine the distance between the suitcase follower and the user. Meanwhile, the DC motor and its motor driver act as a moving device to follow the user. In conclusion, with this system designed, travelers can find a solution that makes travel easier, namely the smart follower suitcase in carrying out their activities.

Keywords: Smart Followers Suitcase, Arduino, Object Detection, Bluetooth HC-05