

Abstract

Good waste management must be made through good planning, adequate facilities and meet the needs. Waste management is governed by Law No. 18 of 2008 which mentions “Waste management are divided into two main groups of waste reduction and waste handling”. Waste management (distribution) which is less efficient leads to accumulation of garbage at a particular point in a city. Waste cumulation become a major problem in every city in Indonesia. The facilities provided by the government sometimes less comprehensive or less efficient to handle the garbage that has collected.

In this paper, we proposed a system uses ultrasonic sensors by utilizing the communication of machine-to-machine (*M2M*) platform and *Android Openmtc*. The system built on this Final Task is a prototipe with three sensor *nodes*, a *device* administrator and an *android device* that is connected to *Openmtc*.

The ultrasonic sensor is used to determine the height of the Trash Bins that located at the Temporary Thrash Shelter (TPS). GPS is used to transmit the location of the garbage truk. The GPS is based on *android* platform, available in a garbage truk. The Truck Driver will get a direction leads to another shelter.

Keywords: Waste Management, M2M, GPS, openmtc, ultrasonic, android