SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

TEAM ID: PNT2022TMID28956   SUBMITTED BY: Jyothi Saai Raam P N

LITREATURE SURVEY

Bharadwaj B et al [1] Name of the Paper Automation of smart waste management. The main motto of the application is collection of dry and wet waste separately which is placed in a conveyor belt on which the dry waste collected dust bins are placed left side and wet waste collected bins on right side. The system will get the input through the dust collecting person through switches and sends signal to the Micro controller unit using RF technology and that makes the H-bridge to rotate conveyor belt. When the belt starts rotating clockwise the dust bin's lid is automatically closed, simultaneously the waste is dumped into the underground garbage container placed at the ground floor Published at the year 2017.

Bikram Jit Singh et al [2] Name of the paper Smart dustbin for smart cities. To avoid all such situations, we have implemented a project called GSM based smart dustbins for smart cities. In this, dustbin is interfaced with microcontroller-based system having IR wireless system. If the dustbin is loaded with garbage, the status will be displayed on the screen. Published at the year 2016.

Siva Nagendra Reddy et al[3] Name of the paper Wireless dust bin monitoring and alert system using Arduino. This project is designed for the effective garbage collection using Embedded System. The main aim of the proposed method is collecting waste into the dumping vehicles. In this method when ever dustbin filled to certain levels the module placed on the dustbin will send an alert message to server node. From the server node it again sends a message to the concerned authorities. This system also sends information about harmful gases emanation. Published at the year 2017.

Mamta Pandey et al[4] Name of the paper Smart dustbin (IOT). we have designed a smart dustbin using ARDUINO UNO, ultrasonic sensor which will sense the item to be thrown in the dustbin and open the lid with the help of the motor. It is an IOT based project that will bring a new and smart way of cleanliness. It is a decent gadget to make your home clean, due to practically all offspring of home consistently make it grimy and spread litter to a great extent by electronics, rappers and various other things. Published at the year 2020.

Samruddhi Bagalkot et al [5] Name of the paper iot based smart dustbin system. The main focus of this paper is on the monitoring of trash levels and tracking those garbage bins which are full and need to be flushed out immediately in those respective areas. In addition to that the data is sent into workstation for real time monitoring. After reaching maximum level of garbage in the dustbin the alerts are sent directly to the municipal corporation's garbage collector through GSM module. If in case any fire

occurs in the dustbin due to any flammable object, it will get alert through buzzer so that nearby people will take required action.