Title :

Sorting And Monitoring Of Recycle Item With IOT

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Abstract :
The development of this project will bring out an automated recycle bin which able to sort metal and nonmetal item that can be monitor through IOT. The ideas of this project came out from the problem statement which Recyclable materials end up mistakenly disposed to general landfill. Even though the awareness campaign is already made by government, mix recycle trash problem still occurs. Furthermore, workers affiliate with trash is more likely to be infected. In order to reduce these problems, an automated recycle bin which sort metal and nonmetal item is created with additional function of trash level monitoring system through IOT. This project will implement the usage of Arduino, servo motor, ultrasonic, IR and metal sensor. With the design of this machine, may it help those who involve in waste management and reduce the company cost in hiring manpower to separate the recycle waste and monitoring the waste which result to cleaning or trash collection more efficient. With a further modification, may it sort more recycle item.