Smart Trash Can for Clean and Comfortable Environtment

Trashes often considered as petty things by people in fact trashes can cause many problems such as unpleasant aroma and pile of trash which trigger sanitation problems. The culture of waste sorting that becomes one of the sanitation problems solution yet hasn’t become a habit among people. Altough there is categorized-trash bin based on the kinds of waste. This could be a challenge related to device or facility development which able to help people disposing and managing waste efficiently.

The solution that will be offered in this experiment is creating a smart trash can which able to categorize waste automatically after user pushes the button. The devices that needed are AVR ATMega8535 microcontroller as activator machine and programming codes using C++. Besides, smart trash can later will be equipped with EM4 microbes (*efective microorganisms*) to reduce unpleasant aroma produced by waste.

The smart trash can is expected to be effective and efficient solution in handling waste problems. Hopefully, the smart trash can be applied at school, university, office, market, shopping center and other public facilities such as airport and station.