

ABSTRACT

Human population growth increases the production of trash that ends up being a big problem because it can lead to disturbances in the environment in which human lives. Increased production of trash makes us think seriously for finding the solution to finish it. Things to do is create trash sorting tool that aims to sort the trash and place it in trash container fit the category. But, people who lack of knowledge about trash category cause them cannot recycle it properly. This research aims to sorting the trash especially light trash to plastic and paper in order to be recycled and also to add display to trash container for finding out the capacity of trash in the container. This light trash sorting system can only detect plastic that does not clot and which can be penetrated by light because it can make obstacle for LDR. The system can't only detect paper which can be penetrated by light. The trash that has a value of more than 700 is paper trash, and trash which has a value below 700 is plastic trash. That trashes is placed in the container that has been tested with good result in providing information ti the admin/ trash manager.

Keywords: Light Trash Sorting, Microcontroler, Display, Peripheral.