ABSTRACK

Plastic waste is a waste that is usually disposed of in open dumping without further processing, causing environmental pollution, pest and nesting odors. Based on this, a plastic chopper bin was designed using an arduino mega 2560 based electric motor. This system can be used to help reduce environmental pollution. This design has components in the form of Arduino Mega 2560, electric motor, ping sensor, servo motor, power window motor, liquid resin and catalyst, and other small components. This tool will work when the object or trash is full of garbage then the electric motor will work to chop or destroy plastic waste, then the piece of plastic waste will enter the container, the function of the container is a garbage bin that has been destroyed, when the plastic garbage container is full the sensor will detect to order the servo motor to work and the catalyst resin liquid to spray into the container to use as a stick for rubbish that has been destroyed, then the servo motor works to compress or press the container to use to compress the waste in the container, the result of pressing the waste will be a solid waste bin forming solid.

Keywords : Plastic Trash, Arduino Mega 2560, Electric Motor, Ping Sensor, Power Window Motor