



ABSTRACT

The study aims to collect garbage in river, waterways and other low current bodies of water to lessen the waste present on the water surface. It utilizes automation to make the process more efficient and labor saving. With an android application, navigation of the boat will be controlled using an android phone through WiFi connection. The researchers used the NodeMCU ESP8266 ESP-12E to be the center of operations on receiving commands through the Android application, and sending the data of the battery life and level of accumulated garbage that will be passed on the android phone. Ultrasonic sensor was used to determine the waste level on the garbage strainer of the boat which can be seen and stored in the database along with its operating hours. Through this device cleaning and collecting water surface waste will be easier.

Keywords : water, garbage collection, automation, android phone, wi-fi