ABSTRACT

The goal of study is to build a system of better water fillers and can be run automatically to replace the conventional water filler (traditional) used in the general public. Conventional water filler (traditional) which are usually less effective because of the frequent occurrence of negligence in the charging time of the water in the sump so can lead to wastage of water usage in the charging time. Research methods that are used by the method of analysis and design and the author of the analysis results through the design stages of the next stages to be implemented. Results to be achieved in this research is the creation of a system of automatic water filler that can help resolve problems in reducing the level of negligence and waste in the use of water, makes it easy for users and the creation of the water filler system more effective and efficient to replace the conventional water filler (traditional) are commonly used at this time. Automatic water filler architecture uses a microcontroller, Arduino Uno as ultrasonic sensors, process tool as input devices and also, as an instrument of servo motor output in charger of water that will be created.

Keywords: Automation, Microcontroller, Arduino Uno, Ultrasonic Sensor, Servo Motor, Water Filler