ABSTRACT

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DESIGN OF WATER LEVEL DETECTION ARDUINO UNO BASED
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(xii + 39 + Appendices)

Floods are natural disasters occurring in nature or by human activities. High rainfall causes the flow of water flowing from the river to the dam door to flow so much that the dam can not withstand the large water debit and cause flooding. The methodology used is literature method, tool design, data collection tool, data retrieval technique, tool testing. Monitoring system based on the design classification of water level on Arduino Uno. This tool is very useful if implemented properly and properly. This circuit uses 1 Ultrasonic sensor, 3 green, yellow and red LED, buzzer, LCD. The brain of this series is Arduino Uno Microcontroller programmed by using C language. The results will be obtained is to provide information in real time in the form of LED display that is green, yellow, and red. Every light that turns on will coincide with the display of characters on the LCD is green LED blinking it will appear the character that is "Safe", led green without blink it will appear character that is "Standby 2", led yellow light will appear characters Namely "Standby 1", and the red led light will show the character "Danger". In addition, the buzzer sounds when the condition has exceeded the safe limit to indicate a flood or hazard.

Bibliography (2011 - 2018)