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FLOOD MANAGEMENT SYSTEM USING A SOUND SENSOR ARDUINO BASED

Nazwan Putera Prayuda
Industrial Engineering Study Program, Bhayangkara University Jakarta Raya, Indonesia

Aditya Putra Firmansyah
Industrial Engineering Study Program, Bhayangkara University Jakarta Raya, Indonesia

Rafly Septia Sandy
Industrial Engineering Study Program, Bhayangkara University Jakarta Raya, Indonesia

Paduloh *[1]
Industrial Engineering Study Program, Bhayangkara University Jakarta Raya, Indonesia
paduloh@dsn.ubharajaya.ac.id

ABSTRACT

Natural disasters are events that arise due to careless human actions. Natural disasters such as floods cause a lot of material or psychological losses. Floods often cause people to lose their homes, livelihoods, and even cause trauma due to the loss of family members. So we must prevent floods from occurring in order to achieve a safe and peaceful life. In this research, a Sound Sensor was used as a detection tool combined with the Arduino Water Level System so that the movement of water flow can be seen, especially in areas that are prone to flooding. The results of this research showed that there was a low scale with a small sound on the red light, then there was a medium scale with a medium sound on the green light, and also a high scale with a large sound on the blue light.

Keywords: Arduino, Flood, Water Level Sensors, Speaker Buzzer

INTRODUCTION

Natural disasters are events that arise due to careless human actions. Natural disasters such as floods cause a lot of material or psychological losses. Floods often cause people to lose their homes, livelihoods, and even cause trauma due to the loss of family members. So we must prevent floods from occurring in order to achieve a safe and peaceful life.

Floods are a seasonal threat that occurs because waterways overflow and inundate certain areas. Apart from that, floods are natural disasters that often occur and are dangerous. Tidal flooding occurs almost daily, depending on tidal oscillations, when sea levels rise to critical heights over coastal lands. Land subsidence and rising sea levels as a result of climate change are making tidal flooding worse. [6].

[1] Correspondence author.