

ABSTRACT

Mayo Nugroho Putra, 24118049

FLOOD DETECTION USING IOT-BASED WATER LEVEL SENSOR

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(xi + 30 + Attachment)

Flood disaster is one of the focuses of attention, because it still causes a lot of losses and casualties. Indonesia is a country that has a tropical climate. The prolonged rainy season due to extreme weather changes that occur in various regions in Indonesia causes people to be more alert to flood disasters. As a result of this flood disaster can cause a lot of losses caused even many casualties. This loss can occur because the community is less prepared for the disaster that will occur. Therefore, an effort is needed to minimize the loss of life and losses that occur by designing a flood detection system to monitor the level of river water levels. This system is based on IoT (Internet Of Things) which refers to a network that connects various physical devices with various different protocols. The water level sensor is used as a data reader and the NodeMCU as a processor and sends data wirelessly to an android smartphone via the BLYNK application, the results of this study are a water level detection system that can inform the water level through Blynk on a smartphone. Thus this detection system will be used to inform early before a flood occurs.

Bibliography (2017-2020)