

ABSTRACT

The implementation of technology in the field of natural disasters could include the system preventing the disaster and so on. Floods are frequent in Indonesia. According to Indonesian National Disaster Management Board or (BNPB) in 2016 there are 63.7 million people of the Indonesian population at 315 districts exposed to flood potential. Negative effects from flood can cause buildings inundated by water, also can cause short circuit in electricity in their homes, for that reason there is a need for a system that can cut electric current automatically when flooding. The system to be implemented comprising several components that is rain sensor module, a relay module, the filament lamp, Arduino nano, module SIM800L GSM, LM2596 and Arduino for the construct program. Rain sensor module would detect the water at the time of the water level touch sensors, flow of electricity at house will be terminated automatically after that buzzer turns on and the system will send a text message to user. After floods recede the electricity equipment at house would reconnect.

Keywords: flood, Arduino, electricity, Rain sensor module, Relay module, Filament lamp, GSM Module SIM800L, LM2596.