

## ABSTRACT

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"DESIGN OF A SMARTHOME SYSTEM FOR CONTROLLING HOME ELECTRONIC DEVICES USING VOICE RECOGNITION MODULE V3"

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Keywords: Fan, Lamp, NodeMCU ESP8266, Smart Home, Solenoid Door Lock, Voice Command, Voice Recognition Module V3

(xii + 51 + Appendix)

This home electronic device controller using voice commands is made to activate and deactivate home electronic devices using voice commands from homeowners because sometimes when they want to go out of the house or work homeowners have to turn off electronic devices such as lights and fans in several rooms due to the placement of electronic equipment switches that are different from other rooms. The making of this tool aims to make it easier for homeowners to turn off electronic devices in one place only. In operating this tool using voice recognition module V3 as a medium for receiving voice commands then using NodeMCU as a data processing place then supporting components such as lights, fans, and solenoid door locks and using the Blynk application as an alternative if the owner's voice is having problems. This tool works when the owner gives voice commands to turn on or turn off electronic devices such as lights, fans, and solenoid door locks with a distance of 30 cm from the tool and can be operated in quiet room conditions and every giving voice commands the button on the blynk application will follow the command, then if someone else gives a voice command the tool will not process the command because the voice given is different from the voice that has been stored on the voice recognition module V3, and the owner can also control home electronic devices by using the button on the blynk application if the owner's voice is in trouble.

Bibliography (2019-2022)