

DESIGN AND BUILD FACE UNLOCK SYSTEM IN ESP32-CAM BASED STORAGE CABINETS

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ABSTRACT

Storage cabinets are objects that are commonly used in everyday life, there are many cupboards in every home that still use storage cabinets as storage. With so many uses for these storage cabinets, there are still many cupboards that still use conventional locks where locks like this are very vulnerable to being broken into so that the security in the cabinets is minimal. Therefore, by looking at the problems above, an ESP32-based home wardrobe door access system was created where in the design of the tool in accessing the storage cabinet the first step was to use RFID (Radio Frequency Identification) to access the camera. so that when face access is not registered, the wardrobe door cannot be opened. The device also adds a finger print which is used if an emergency occurs or the tag card is lost. The cupboard cannot be opened through the camera, so you can use the finger print to open the cupboard. Where in this study the success rate of the ESP32-CAM is 100% and the Finger Print sensor is 100% with 15 trials.

Keywords: *Storage Cabinet, ESP32, RFID, FingerPrint.*