

## ABSTRACT

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*Innovation and integration is needed to improving security on existing systems, especially in security systems vaults. On systems that have often encountered that use codes and fingerprints, the existing system has the disadvantage can be cracked by contour duplicate knuckles, so that by the end of this project built a prototype security alternatives. Prototype built a vaults security system. Things can be done to improve the vaults security system by building a dual system / layered, need to double verification that two conditions must be met to open a vaults.*

*The system is the integrated of RFID and Smart Card RealSense with logic. Both conditions must be met, face to be silent in order to focus the camera to take pictures. Then comes alerts shaped LED that lights up green if verified and if the LED lights up red means that the data entered is incorrect. To increase security, so that at the end of this prototype project offered is "Making Safe Security Prototype Using RFID NFC is integrated with Biometric Face Recognition".*

*The test results of the prototype device of this vaults is the result of the user's face must be visible all, is not allowed use masks or other items covering the face. Testing has been done these tools can recognize the contours of the face so that the system can be applied as a technique of securing the safety vaults.*

*Keywords: RFID, Security, Biometric*