

## **ABSTRACT**

Nowadays, problem of security represents the problem of important to be paid attention, to consider its excelsior of criminality number. Therefore, action in efforts to achieve security is required in the effort of prevention act of criminality. Technological growth in this time can give solution to the problem, one of them is high level security system.

This Final project proposes door protector system planning using RFID Tag Card and PIN base on AVR ATMEGA 8535 microcontroller. Furthermore the system is tested with examination by hardware and software to know the performances.

From the research which have been done, can be concluded that this door protector system can work better. This thing is seen from its function which have succeeded by giving 2 security phases, they are RFID Tag Card and PIN. For The RFID Tag Card, can be concluded that maximum distance to detect RFID Tag Card is 5 cm. From the capacity of flash memory in the system, can be concluded that this system can accommodate users data, counted 14 users with 1 user consumes about 352 Byte of flash memory capacity. With these parameters can be concluded that planning and examinations of this system have succeeded to be done.

Keywords: RFID Reader, RFID Tag Card, PIN, AVR ATmega 8535 Microcontroller.