

## ABSTRACT

Personal computer and its entire component can be used for any application used to make the work convenient for men. In addition, software has been rapidly developed, for example the programming language that can implement the mechanic process pragmatically. Considering those matters, this research mainly focused on creating a device that combine those two wares (software and hardware), considered as an alternative in accessing and securing data.

This device is an ID card censor using photoelectric based on PC. This ID card censor consists of two components. Those are phototransistor and LED infrared. This system works in a way that phototransistor detects the light produced by LED infrared that pass trough some holes on the ID card. The process results some binary code and afterwards processed by Borland Delphi 5.0 in PC. Finally it shows the data that can be accessed by the ID's user only.

This alternative in accessing data is convenient to use and can be applied for daily needs, such as for student's registration system in campuses, attendance card system in a company, and also motivating the relay where some motor are used.