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Driving under Influence of Alcohol Preventer Embedded System

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Abstract: This work presents a control system to prevent accidents of automobiles because of drinking, it consists of alcohol sensor interfaced with microchip microcontroller PIC 16F877A as input device, GPS transmitter, relays to deal with electrical pump, and flasher light, as output devices. GPS transmitter send a signal as unknown point to GPS receiver in the police station and by software and an alarm will turn on too. To simulate this a PIC 16F877A interfaced is used with the alcohol sensor as input and LCD LM016L to give the percentage of alcohol amount, DC-Motor to indicate about electrical pump, LEDs to simulate flasher light, and mobile phone connected to the PIC to send SMS to another mobile as GPS simulator, this devices act as output as a simulator to the real automobile.