

ARM7 BASED SMART CAR SECURITY SYSTEM

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Abstract

The main aim of this project is to offer an advance security system in CAR, which consists of a face detection subsystem, a GPS module, a GSM module and a control platform. The face detection subsystem can detect faces in cars during the period in which nobody should be in the car, and make an alarm loudly or soundlessly. The other modules transmit necessary information to users and help to keep eyes on cars all the time, even when the car is lost. In modern world, many new techniques such as biometric recognition technique, image processing technique, communication technique and so on, have been integrated into car security systems . At the same time, the amount of accident of cars still remains high, specially, lost. Traditional car security systems rely on many sensors and cost a lot. When one car is really lost, no more feedback could be valid to help people to find it back. This system prototype is built on the base of one embedded platform ARM7 which controls all the processes. Experimental results illuminate the validity of this car security system.

Keywords : Vehicle Security video Camera; GPS; GPRS; embedded system