

Secure Car Parking Management System

Introduction :

Car parking has become an immense issue, especially in big cities. Moreover, the car theft has become an evil art haunting drivers. Our approach is cost effective and it covers all the features of a complete secure car parking management system.

Car Entering Module :

In this Module, as the car enters the lot, it is detected by the IR Sensors. The IR Sensors provide the pulse to the FPGA which assumes that an input is detected and thus the car is allocated a parking lot(if there is a free slot). Now the user is given a smart card which represents a particular slot. One should set one's own password for their card and he/she is supposed to re-enter the password once again near the slot, so that we can ensure that he/she is parking their car in the correct slot, they are also supposed to place their car keys in respective lockers assigned for each slot.

Car Exiting Module :

In this module, when the card is scanned while exiting one should re-enter the same password that he/she assigned while entering into the slot to collect one's key, so that one can take their car.

Car Security:

The security module is highly secure enough so that one cannot lose their key, even if they lose their smart card, the car keys are still in locker so that the management can assure that the car is safe. There are no reasons to be concerned about even if the card is lost.