Automatic Lock System

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Due to the unavailability of parking spaces for the transport vehicles in many countries in the world which carry a high risk for accidents when the vehicle stop on the periphery of the street in order for the passenger to get down , so the passenger will be exposed to be hit by a car coming with high speed due to the poor attention from both the driver of one car and the passenger from the other car . The idea of the project was emerged from that problem we face in our life. The action of the automatic lock system depend on a HB100 Miniature Microwave Motion Sensor which is X-Band Bi-Static Doppler transceiver module, It has a built-in Dielectric Resonator Oscillator (DRO) and a pair of Micro strip patch antenna array, making it ideal for usage in motion detection equipment . that sensor is installed on the stopped vehicle and measures the speed of the vehicles that come from behind . The aim of this process to know if the passenger can get out from the vehicle safely, and if there were no enough time the system will lock the doors immediately until the coming car exceed

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