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Automatic Braking System Using Ultrasonic Sensor

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Abstract: *When compared with olden days life span of human is reduced. Death rate due to accident is drastically increased because vehicles usage is increasing by day by day. Due to brake failure so many accidents are occurring so when we control the brake by automatically we can reduce the effect of accident. A Ultrasonic setup is placed in front of vehicle and that setup consists of an emitter and a receiver. Ultrasonic emitter always emits the ultrasonic waves, whenever a obstacle is detected then wave gets reflected and receiver receives the signal. Reflected wave sends the signal to the Aurduino Nano from that based upon distance of object it actuates the buzzer or brakes. Brakes are actuated by using Solenoid valve. Solenoid valve operated by electrical signal and it actuates brakes by using pneumatics. UBS car provides the glimpse into the future of automotive safety. By UBS system we can prevent more accidents and save more lives.*

Keywords: Braking system, Ultrasonic sensor, Aurduino**.**

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