**Sensor Setup to Prohibit Travelling in Steps**

**Introduction:**

**This project is based on “Safe Transportation” in public transports like bus. My idea is to design a sensor setup to stop passengers from travelling in steps of the bus which cause accidents.**

**Abstract:**

**The sensors used in this setup is depending on the wavelength required and based on the efficiency of the sensor, best sensor for human detection is Passive Infrared [PIR], Infrared and Light senor, When any passenger is detected in between the sensor then the signal is transmitted to the electronic board which is further connected to the indicators [sidelight] of the bus and to the speaker which will give a warning voice command to the passengers.**

**Further the speed of bus is reduced by using “speed control machine “which reduce the speed of bus when someone suddenly stand in steps and reduce the risk of accidents. The sensor starts working only when the bus moves in 20 km/h.**

**Conclusion:**

**By designing this sensor setup many accidents can be avoided and drivers can concentrate on driving and the bus conductors can do their work properly instead of shouting against those who are violating the rules.**

**THANK YOU**