Crash Detection System





Why?

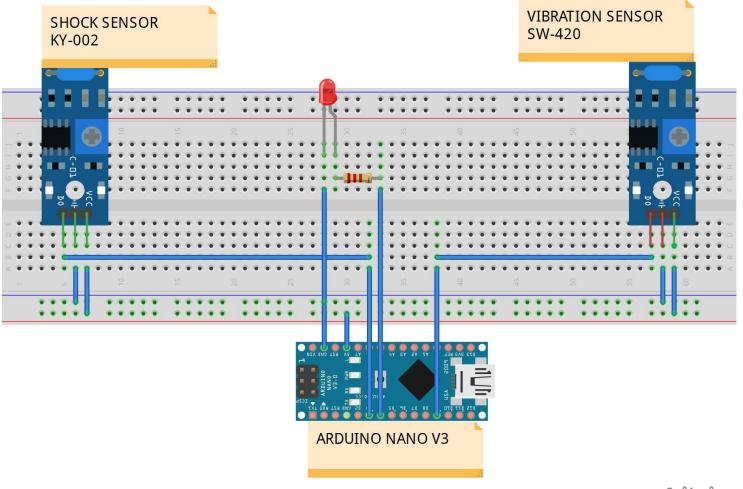
Automated crash alarm systems are already implemented in most of the vehicles today. Our project is just a try at understanding at the basic level how these small but crucial systems work.

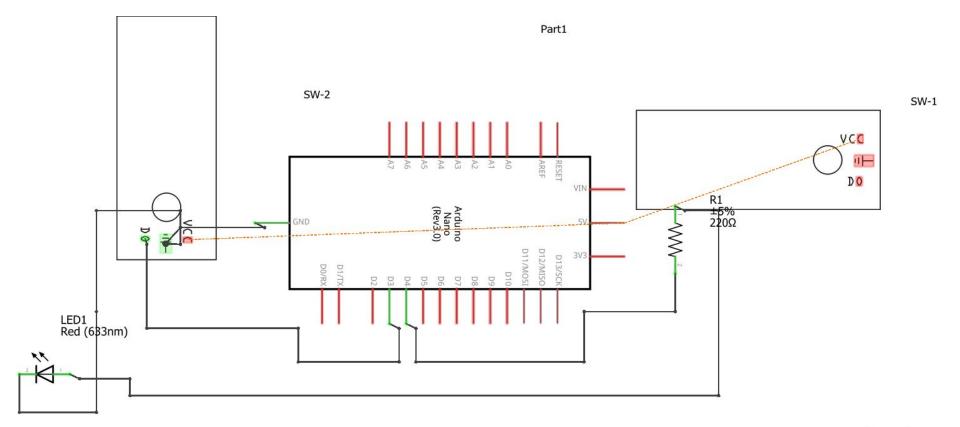


Components:

- Arduino Nano. Used as a controller and to read values from the accelerometer.
- → Vibration and Shock Sensor.

 Detection of any kind of abnormal vibration/shock and sends this data to the nano, which then triggers the LED.
- → LED. To alert once crash is detected.
- → Breadboard and Wires





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Bill of Materials: sketch.fzz

C:/Users/Mukund Kalra/Documents/4thsem/ELproject/sketch.fzz Tuesday, February 19 2019, 01:10:17

Assembly List

Label	Part Type	Properties
LED1	Red (633nm) LED	package 3 mm [THT]; leg yes; color Red (633nm)
Part1	Arduino Nano (Rev3.0)	type Arduino Nano (3.0)
R1	220Ω Resistor	tolerance ±5%; resistance 220Ω; package 0603 [SMD]
SW-1	Vibration sensor module	variant v1; pins 3; voltage max 12V
SW-2	Vibration sensor module	variant v1; pins 3; voltage max 12V

Shopping List

Amount	Part Type	Properties
1	Red (633nm) LED	package 3 mm [THT]; leg yes; color Red (633nm)
1	Arduino Nano (Rev3.0)	type Arduino Nano (3.0)
1	220Ω Resistor	tolerance ±5%; resistance 220Ω; package 0603 [SMD]
2	Vibration sensor module	variant v1; pins 3; voltage max 12V

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