

CODE: [https://makecode.com/\\_Rm5J5v8hDgUr](https://makecode.com/_Rm5J5v8hDgUr)

## Problem:

At night, visibility for drivers, runners, bikers, hikers, and other people is very limited. Because of this, accidents and other problems are prone to happen at night, causing inconvenience for all. Aside from that, not everyone has their phone on them at all times. They could be stumbling to the bathroom at night or looking for their phone in the dark. In times like these, a wearable flashlight would be very helpful.

## User Guide:

- The inputs of the flashlight are as follows:
  - Button A
  - Button B
  - The switch
  - A shake
  - And turning the CPX face down
- The outputs of the flashlight are as follows:
  - White LEDs
  - Flashing red and white LEDs
  - A siren sound
- Turning the CPX face down triggers bright white LEDs
- Shaking the CPX turns all lights off
- Pressing button A decreases the brightness of the LEDs
- Pushing the switch to the left turns on the siren sound
- Pushing the switch back right turns off the siren sound
- Pressing button B triggers the flashing red LEDs