Heart Rate Video Game Controller

It is not part of or a medical device,

Disclaimer

This adapter for a heart rate sensor is intended for educational and entertainment purposes only.

Licencing

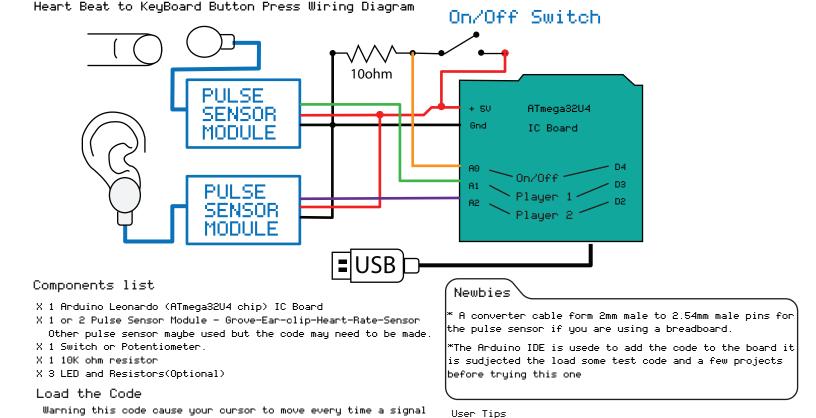
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What is this?

This project uses a pulse sensor to detect a heartbeat and translates into a keyboard button press for use in video games. The sensor used sends a harmless infrared signal through your finger or earlobe and detects variation in blood flow. The Arduino Leonardo takes the signal and sends out a USB keyboard signal. Which will show up as a left or right arrow key being pressed on your computer. This will cause your text cursor back or forward like pressing a keyboard arrow. (player 1 left arrow key and player 2 right arrow key)

Games

The Chill Challenge - this game takes the presses are then calculated heart rate and check for variablity. https://maxtaylermedia.itch.io/chill-challenge



(github link player one)

(github link two player)

Advanced

is sensed.

Change Keyboard presses in code
Keyboard for your own projects
The arrows are and input so

letters and makes for easier debugging

Adding a transistor to the sensor in the circuit. Can help signal with signal dection with some sensors.

the resistors values may need to be changed depending on sensor or voltage. The signal treshold in the code may need changes as well.

GND

Strain releff, clip or holding