

How can an electronic device assist in the implementation of this technique?

An electronic system can easily cause a bilateral stimulation of the senses of sight, hearing and touch and can therefore help a lot in implementing this removal technique PTSD (posttraumatic stress disorder).

What brings novelty my project?

There currently trading teams covering this need, at least there are 4 American and European companies make equipment that cover this need: EMDRKIT, Neurotek, sense-tech, EMDR Equipment Europe. These teams have a high cost that not all therapists who used this technique can afford.

With this "state of the art" I can think of three improvements to incorporate into my project that would make:

1st It could extend the use of this technique popularizing construction,

2nd enhance the effectiveness of its implementation by far proven their effectiveness, and finally

3rd be significantly improved interface for use by incorporating infrared remote control (and later by bluetooth to communicate with Smartphone).

As I get my project executing these improvements:

Proposal No. 1: HW + SW free and public domain.-

I propose to design and build a team of public domain (HW and SW) based on popular microprocessors (PIC / AVR / Arduino) for any amateur with enough knowledge to build one and offer therapists in their environment using this technique.

Proposal No. 2: Measuring the effectiveness of the application in the patient.-

Incorporating EEG electrodes in areas of the brain where its located the view (occipital area), the ear (temporal area) and hand touch (in the somatosensory parietal area).

With this biofeedback you can faithfully measure the cortical activity of the patient and study the actual effectiveness with which EMDR is acting on this.

Proposal No. 3: Improved user interface

On the other hand, the control units EMDR equipment are housed in plastic boxes as a remote control but with cable, and none of these companies sells a computer that communicates with a remote control infrared and in a second stage by bluetooth for connection with Smartphone.