

# BRAINWAVE MACHINE

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## ABSTRACT

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This project paper is about the brainwave machine, its construction, its theory behind it and the possible outcomes that it can produce. A brainwave machine is made up of two portions, hardware and software. The hardware consists of light emitting diodes fixed onto the lenses of a safety goggle and the software is created to control the flashing rate of the light emitting diodes (LEDs) through the computer's parallel port, our brain gets influenced and brain activity tends to mirror flickering light. As a result, it changes the frequency of our brainwave to the frequency of the flickering light. The change in frequency results in a change of state of consciousness for example from being averagely alert to being sleepy. In other words, we have control over our state of mind through the effective use of brain entertainment, which is the tendency for brain activity to mimic the frequency of light stimuli. Beneficial outcomes include stress relief and better mental ability.