

# BRAIN CONTROLLED BOT FOR PHYSICALLY DISABLED

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## ABSTRACT:

Right from womb brain starts to generate electrical pulses. In the 40s and 50s, a number of researchers explored the connection between neurology, information theory, and cybernetics. Some of them built machines that used electronic networks to exhibit rudimentary intelligence, such as W. Grey Walter's turtles and the Johns Hopkins Beast. Our brain expresses all thoughts in form of 5 kinds of waves such as alpha, beta, theta, gamma and delta. Each wave is responsible for each action in our brain and different from one another by means of frequency. Gamma waves are responsible for concentration and relaxation whereas alpha waves are responsible for eye actions. By sensing gamma waves, we can extract information regarding concentration. This data is fed to a robot and it can be moved and stopped by fixing certain threshold values to this data. By sensing alpha waves, we can measure eye blinks and this data can be used to control the directions of the robot. This application will be very much useful for physically disabled people who are dependent on others for their primary needs.

