EOGVIEW

EOG BASED EYE TRACKER





THE PROJECT IDEA

TECHNOLOGY



EOGView is a technology-based project focused on developing an eye tracking system using Electrooculography (EOG). The main innovation of this project lies in the utilization of EOG signals for eye tracking. EOG signals are generated by the movement of the eyes, and EOGView aims to capture and analyze these signals to accurately track eye movements.



The innovation in EOGView lies in its approach to eye tracking using EOG signals. By focusing on EOG, the project aims to provide a non-intrusive, cost-effective, less resource-intensive, secure, and versatile solution for eye tracking and health tracking.

OUR CUSTOMERS

Gamers and Virtual Reality Users

1

EOGView can cater to gamers and virtual reality enthusiasts who want to enhance their gaming experience or create more immersive virtual reality environments through eyetracking interactions. Accessibility and Assistive Technology Users

2

EOGView can serve individuals with disabilities, such as motor impairments, by providing an alternative input method through eye tracking. It can enable hands-free interaction with computers, communication devices, and other assistive technologies.



Medical and Healthcare Personal

EOGView has potential applications in medical research, particularly in ophthalmology, neurology, and sleep studies. It can aid in the diagnosis and monitoring of eye conditions, neurological disorders, and sleep disorders.

OVERALL

Most clients want a solution, which has the following parameters:



Health Tracking Feature







WHAT IS EOG? WHY IS IT IMPORTANT?





SOLUTION



Electrodes



OUR AIM



Find investors and secure funding



Manufacture and sell EOG eye trackers



Integrate in game platforms and virtual reality systems



Integrate into medical systems to analyze patient's eyes issues



COMPETITORS



Tobii's eye trackers



EyeTech's trackers



Imotion's trackers





Ergoneer's trackers

WHAT HAVE WE DONE?



Program for EOG acquisition and processing



PBC Schematic of EOG registrator

left, right, up, down, blink



Programs for mouse controlling by eyes and robot.



Programm for EOG dataset acquisition for future training of NN

The real-time system which can classify eye position in five positions:

WHAT ARE THE NEXT **STEPS**?



EOG signal investigation in different positions.

Create a system that can precisely determine the gaze angle.









THE TEAM



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