

Matthias Weber

**Entwicklungskonzept für ein
BCI-Computerspiel unter Verwendung von
Unity, Neurosky Mindwave und Oculus Rift**

Projektsummebericht II -arbeit

Entwicklungskonzept Bci Computerspiel Verwendung Neurosky Mindwave

Matthias Weber



Entwicklungskonzept Bci Computerspiel Verwendung Neurosky Mindwave:

"Höhenflug". Konzept eines BCI-Computerspiels zur Höhenangst-Reduktion Matthias Weber,2015-12

Computerspiele haben eine mehr als 50 j hrige Historie und sind mittlerweile ein fester Bestandteil der Alltagskultur vieler Menschen sowie ein bedeutsamer Wirtschaftszweig In der Geschichte der Computerspiele waren es immer wieder neue Interaktionsformen die die Entwicklung vorantrieben Manche sehen bereits die M glichkeiten der in j ngster Vergangenheit aufgekommenen Bewegungs Controller wie bspw Microsofts Kinect ersch pft und Biofeedback wie bspw Brain Computer Interfaces kurz BCIs als n chste gro e Innovation im Bereich Eingabeger te Bekr ftigend f r diese Prognose ist zu beobachten dass derartige BCIs auch f r den normalen Verbrauchermarkt und zu immer geringeren Preisen angeboten werden Allerdings sind bislang wenige Spiele erh ltlich bei denen von BCIs Gebrauch gemacht werden kann Biofeedback und BCI Spiele fristen also derzeit noch ein Nischendasein Ziel der vorliegenden Arbeit ist es ein Konzept f r ein BCI bzw EEG Biofeedback Computerspiel zu entwickeln wobei die Bezeichnung Spiel zu diskutieren ist Dabei sollen aktuelle Erkenntnisse und Prinzipien aus hnlichen Arbeiten anderer Autoren Beachtung finden W nschenswert w re ein h henangsttherapeutischer Nutzen

Entwicklungskonzept Fur Ein Bci-Computerspiel Unter Verwendung Von Unity, Neurosky Mindwave Und Oculus Rift Matthias Weber,2015-06-12 Praktikumsbericht arbeit aus dem Jahr 2015 im Fachbereich Informatik Allgemeines Technische Universitat Chemnitz Medieninformatik Sprache Deutsch Abstract In den letzten Jahren haben sich neue Interaktionsmöglichkeiten im Bereich der Computerspiele etabliert wie bspw die Bewegungssteuerung mittels Microsofts Kinect Weniger popular ist bislang die Steuerung via sog Biofeedback also durch von Sensoren erfassten physiologischen Daten Beispiel hierfür ist das sog Neurofeedback mittels sog Brain Computer Interfaces kurz BCIs also per Hirnstromwellen Messung Elektroenzephalografie EEG Mit dieser Arbeit soll sich vorbereitend fur eine Abschlussarbeit mit der Entwicklung eines Konzepts fur die Erstellung eines Computerspiels beschäftigt werden bei welchem Neuroskys Mindwave und das Oculus Rift zum Einsatz kommen sollen Das Mindwave ist ein EEG Messgerät der Firma Neurosky welches optisch an ein Headset erinnert Das Oculus Rift ist ein Head Mounted Display der Firma Oculus VR welches in der Version Development Kit 2 verfügbar ist Als Entwicklungsumgebung soll dienen die Spiel Engine Unity der Firma Unity Technologies da diese die Integration von Neurosky Mindwave und Oculus Rift gemass Recherche Ergebnissen im Vorfeld relativ komfortabel zu ermöglichen schien Unity stand in der Version 4.6.0b17 Pro Lizenz Vollversion zur Verfügung Im Folgenden soll die Arbeit mit der Software im Rahmen des Projekts zur vorliegenden Arbeit näher beleuchtet werden Zunächst sollen gestalterische Aspekte betrachtet werden danach auf Quelltext Programmierung eingegangen werden

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