FINAL YEAR PROJECT REPORT

MIND CONTROLLED WHEELCHAIR

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MIND CONTROLLED WHEELCHAIR

ABSTRACT

This project explores the field of neural signals and how they can be used in communication or applications. The objective of this project is to control a wheelchair using brainwaves and Bluetooth communication. User will be able to control the wheelchair by wearing an EEG headset that reads brain signals. The wheelchair will respond accordingly to the "thought" of the user i.e. if the user wants to move in forward direction, he/she should concentrate on an object to increase attention level and wheelchair will move forward. For us it is a revolution in technology but for the physically disabled, it is a life changer. People with locked-in syndrome, in which their brain is working but the rest of the body is paralyzed, or others with some sort of physical disability will be able to control their own wheelchair without the help of any attendant by just using their mind to go forward or reverse or any direction by just thinking about it. Mind controlled wheelchair can change the lives of paralyzed and physically disabled people by giving them independence of controlling their own wheelchair.

TABLE OF CONTENTS

CHAPTER 1 **12**

1 INTRODUCTION **12**

1.1 Background 12

1.2 Problem Statements 12

1.3 Aims and Objectives 13

1.4 Scope of Project 14

1.5 Problems Regarding the University Administration: 15

CHAPTER 2 **16**

2 LITERATURE REVIEW **16**

2.1 Brain Computing Interface 16

2.2 EEG 17

2.3 Data Acquisition 18

2.4 Type of EEG Headsets 22

2.5 Bluetooth Communication 28

2.6 Arduino Microcontrollers 30

2.7 Flex Sensors 38

2.8 Ultrasonic Sensors 39

CHAPTER 3 **42**

3.1 DESIGN AND METHODOLOGY **42**

3.1.1 Starting with the Project 42

3.1.2 Selection of the EEG headset 43

3.1.3 Working with the Emotiv EPOC+ 44
3.1.4 Moving to the NeuroSky headset 46
3.1.5 Design and construction of the 4WD Model Car 46

3.2 IMPLMENTATION 47
3.2.1 Interfacing NeuroSky Mindwave Mobile with HC-05 BT Module 48
3.2.2 Entering into the Command Mode 49
3.2.3 Construction of 4WD and connecting to Arduino Mega 51
3.2.4 Attaching the Ultrasonic sensor 53
3.2.5 Testing the codes on the 4WD model car 55
3.2.6 Moving on to the Wheelchair 57
3.2.7 Attaching the Flex Sensor 61

CHAPTER 4 64

RESULTS AND DISCUSSIONS 64
4.1 Mind controlled features 64
4.2 Other features 65

CHAPTER 5 66

CONCULUSION AND RECOMMENDATIONS 67
5.1 Conclusion about Mind controlling features 67
5.2 Recommendations 69

REFERENCES 70