SKR ENGINEERING COLLEGE

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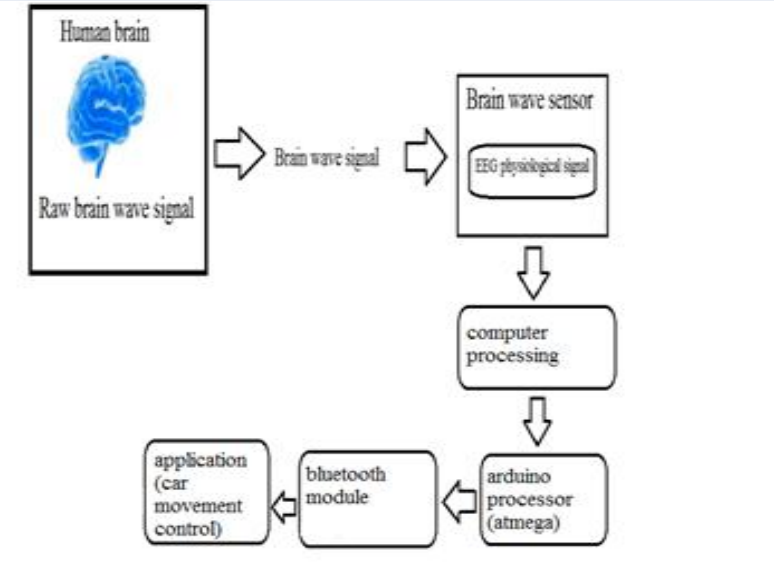
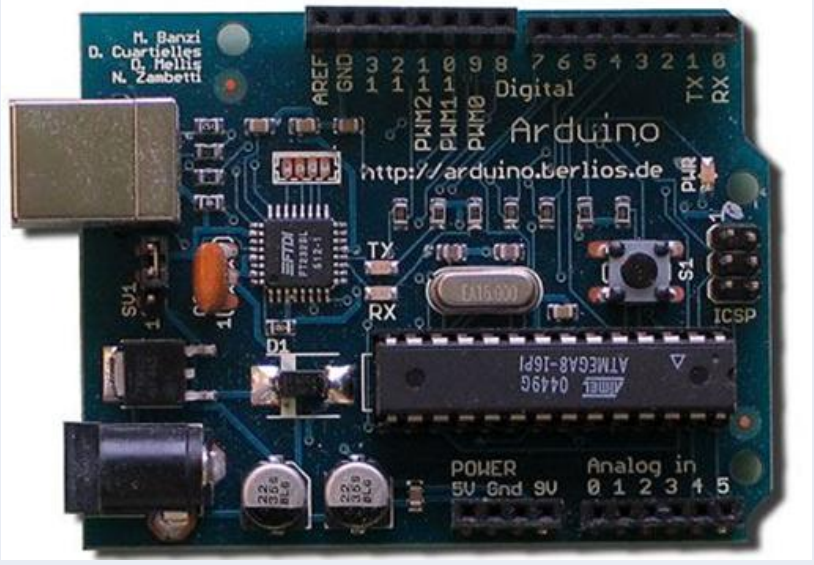
Department of Electronics and communication Engineering

PROJECT TITLE	**MIND WAVE AUTOMATED ROBOTIC SYSTEM**
STUDTENT NAMES	Sasidharan.K.P Sathishkumar.P Shaikansari.P
SUPERVISOR	Mrs. Farzana Fathima ,Assistant Professor
OBJECTIVE	The objective of this project is to help physically disabled people to navigate from one place to another based on intentional blink of the eye. Using this small prototype model a person can handle or control maximum of six to seven devices.
ABSTRACT/IDEA	Many applications have been developed by various persons for controlling devices like wheel chair, appliances, etc. But we have kept a step further by controlling a vehicle using human brain in wireless medium. First the mind wave sensor which picks up the raw data is set over the head. Here we are using Neuro Sky Mind wave Mobile headset to pick up the raw signals from our brain. This headset consists of an inbuilt Bluetooth transmitter which when paired with our PC transmits the data to it in digitalized form. Since the signals produced by the human brain are very minute, a small amplification process takes place inside the headset itself. Then the processor along with a Bluetooth module is paired with the PC so that the data from the PC is transmitted to the processor via Bluetooth module. Once it is done, as the concentration increases the speed also increases and thus the vehicle moves. Make sure that proper coding must be given in order to achieve this.

TECHNOLOGY USED	1. MICROCONTROLLER Based Hardwar control 2. Bluetooth technology
WORKING STEPS	1. Control a vehicle using the mind waves in wireless medium. 2. The speed of the driver motor is being controlled
REQUIREMENTS	1. Arduino uno micro controller 2. Rf transmitter 3. Ht12e encoder 4. Ht12d decoder002E, LCD.
SYSTEM ARCHITECTURE	
	
BENIFITS	1. The paralyzed person to navigate from one place to another place by using their EEG. 2. The physically disabled person can control vehicle (wheel chair) by using their EEG wave .
SCREEN SHOTS	

ARDUINO UNO


M. Banzi
D. Cuartielles
D. Mellis
N. Zambetti
AREF
GND
Digital
PWM2
PWM1
PWM0
TX
RX
Arduino
http://arduino.berlios.de
PWR
TX
RX
S1
ICSP
SV1
D1
ATMEGA8-16PI
POWER
5V Gnd 9V
Analog in
0 1 2 3 4 5