

## Design and implementation of car driving controller system for physically handicapped

### Technical Specifications:

Title of the project	:	Design and implementation of car driving Controller system for physically handicapped
Domain	:	Robotics
Software	:	Embedded C, Keil, Proload
Microcontroller	:	AT89S52
Power Supply	:	+5V Regulated Power Supply, 9V battery
Crystal	:	11.0592MHz
Lead Acid Battery	:	12V
DC Geared Motors	:	2
Applications	:	Physically Handicapped people
Developed By	:	M/S Wine Yard Technologies
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## Abstract:

Now-a-days transportation has become great difficulty to the individual to reach the destination on time, every one are having their own vehicle. And the people with all body parts are fortunate but when it comes to physically challenged people it's very unfortunate that the people with partially disabled with hands can't drive vehicle with the help of steering. In the Buses or Trains they are provided with minimum reservation and which will be very disappointing and they also don't dare to buy a vehicle and assist with a driver which will cost a lot .So this project will be a great solution for them.

The person who is driving car will be equipped with a device which is placed around the neck of the person who is driving the car which is helpful to move the steering forward and reverse direction without any physical or mental stress .The project uses 2 geared motors of 60RPM to drive the prototype of car. Also this car can take sharp turnings towards left and right directions. This project uses AT89S52 MCU as its controller. We are also using four switches in the circuit which will be ON when the person will move neck forward and backward.

This project uses 12V Lead Acid battery which drives two DC motors with the help of H-Bridge Circuit.

**Block Diagram:**

