**PARALYSIS PROSTHETIC HAND**

The main aim of this project is to design and construct a robotic arm frame with which a paralyzed person can do daily activities like a normal individual. The robotic arm can be operated through different inputs i.e., through HM2007 Speech recognition commands of the user and through Speech recognition and control buttons

This project makes use of a Speech recognition system to recognize the HM2007 Speech recognition commands given by the user for the Robotic arm movements. Also the user can switch from HM2007 Speech recognition mode to control buttons. Also we use limit switches which gives the input of the maximum extent the robotic arm could be moved.

This robotic arm is designed by high rated efficient DC Motors which are driven by DC Motor driver. The Hand movement can also be done in angle wise through DC motor.

The project makes use of a microcontroller which acts as a central controlling unit. This module is capable of communicating with the input and the output modules. The output module is formed by the motors used for controlling the direction of the robotic arm and the DC motors for the angular movement of the arm.

The input and output modules of this project are Speech recognition module, Control Buttons, Limit Switches, a microcontroller, DC motors for the robotic arm and DC motors for the angular movements of the arm.

**The main objectives of the project are:**

1. Design an artificial part for paralyzed
2. Speech recognition and Buttons based controlling.