TEMM FALCONS TEMM NO:8

Team members

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PROBLEM

- Disabled persons face problem to move around without the help of others
- These people are dependent on others for the rest of their lives
- Older people find difficulty to walk around and do their daily choirs and if they live alone ...
- Persons with severe disability must need the help of others even for their daily needs

SOLUTION

• A wheelchair is a solution to the early mentioned people and still needs the help of another person to move around

• A home nurse needs to be appointed inorder to maintain the health of the

person



I can't change the direction of wind but I can adjust my sails to always reach my destination

JIMMY DEAN

OUR SOLUTION!!

- Ofcourse a wheelchair, but not the traditional one.
- A motorized wheel chair with voice control command system enabled
- Commands given through an app in the android phone
- Ultrasonic sensation system for safety
- Movable headrest for comfort of the user

COMPONENTS USED

- Arduino Mega as CORE
- HC05-Bluetooth module for COMMUNICATION
- DC Motors for MOTION
- Servo Motors for ADJUSTING SEATS
- 9V Batteries for ENERGY
- L293D Modules as DRIVER
- Ultrasonic Sensor as OBSTACLE DETECTOR
- JUMPERWIRES, WHEELS, CARDBOARD

KEY FEATURES

- VOICE CONTROLLER
- OBSTACLE ALARMING SYSTEM
- LOW COST DESIGN
- EASY TO OPERATE
- LIGHT WEIGHT
- ELECTRONICALLY ADJUSTABLE SEATS.

THEME AND OUR PROJECT

- "ROBOTICS FOR HUMANITY"
- We Team Falcons sticks on to theme by considering the weaker sections of the society, the ones that need care and bundles of self confidence.
- By this project we hope that they will 'superare' the hurdles of life the reality.
- Making differently abled persons move indepedently

AVERAGE COST

• ARDUINO ATMEGA - 2000

• DC MOTER - 3100*4

MOTER DRIVER - 2000*2

• BLUTOOTH MODULE - 500

• ULTARASONIC SENSOR - 99*6

• STRUCTURE - 2500

• SERVO MOTER - 3000

• COST(approx.) -22000/-

PICTURES

