

# **Voice Controlled Wheelchair for Physically Disabled Person**

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# ABSTRACT

- This paper describes intelligent voice controlled wheelchair which operates on user's voice commands.
- The disabled people cannot move from one place to another on their own.
- They continuously need someone to help them in getting the wheelchair moving.
- This voice controlled system make them more independent. Powered wheelchairs with the standard joystick interface are unable to be control by many people.

# EXISTING SYSTEM

- Therefore, voice controlled wheel chair is built to overcome the problems faced by such people and enable them to operate the wheelchair.
- The wheelchair will be operated using the voice commands through the given input.
- The Arduino will take care about all the directions the user wants.
- The instruction for each and every direction is written in the form of program in the Arduino itself.

# PROPOSED SYSTEM

- A voice controlled wheelchair can provide easy access for physical disabled person who cannot control their movements especially hands.
- Few patients such as quadraplegic, cerebral palsy and multiple sclerosis are dependent on other people to move from one place to another and due to this they don't have the freedom of mobility.
- This voice controlled wheelchair help them to drive the wheelchair without anyone's help.
- This system can be controlled by the simple voice commands given by the user.

# SOFTWARE REQUIREMENTS

- Arduino IDE

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# REFERENCE

- [1] Pramila Kupkar, Prajakta Pandit, Nikita Dhadhere and PP Jadhav, "Android controlled wheelchair", Imperial Journal of Interdisciplinary Research (IJIR) Volume-2 Issue-6 2016
- [2] Apsana S, Renjitha G Nair, "Voice Controlled Wheelchair using Arduino", International Advanced `Research Journal in Science, Engineering and Technology(IARJSET), Vol 3, Issue 3, August 2016
- [3] Mr. Tarun Agrawal, "Review on Voice Recognition Module Working", International Journal of Advanced Research in Computer Science and Software Engineering, May 2014
- [4] Ms S. D. Suryawanshi Mr. J. S. Chitode Ms. S. S. Pethakar, "Voice Operated Intelligent Wheelchair", 2013.