IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 8, June 2022
Impact Factor: 6.252

# Smart Hand Gesture Wheel Chair

**Prof. U. J. Suryawanshi[1], Shivani P. Nale[2], Neha Bhagade[3]**
Assistant Professor, Department of EXTC, NBN SSOE, Pune, India[1]
UG Student, Department of EXTC, NBN SSOE, Pune, India[2,3]

**Abstract:** *This Project is to develop a wheelchair control that is useful to the physically disabled person with his hand movement or his hand gesture recognition using Acceleration technology. Tremendous leaps have been made in the field of wheelchair technology. However, even these significant advances haven't been able to help quadriplegics navigate wheelchairs unassisted. It a wheelchair that can be controlled by simple hand gestures.*

**Keywords**: Microcontroller (AVR)**,** Accelerometer (adxl 345), IR Sensor, DHT 11, etc.

## REFERENCES

[1] "A Wearable Head-Mounted Sensor-Based Apparatus for Eye Tracking Applications" IEEE International Conference on Virtual Environments, Human-Computer Interfaces, and Measurement Systems Istanbul, Turkey, dated 14-16 July 2008.
[2] "A Wearable Head-Mounted Sensor-Based Apparatus for Eye Tracking Applications" IEEE International Conference on Virtual Environments, Human-Computer Interfaces, and Measurement Systems Istanbul, Turkey, dated 14-16 July 2008.
[3] Marhic, B. "Robotic assistance: an automatic wheelchair tracking "Intelligent Robots and Systems, 2005. (IROS2005). 2005 IEEE/RSJ.
[4] Gaurav Kumar Soni, Vidhata Poddar, Yogita Sahu, Pratima Suryawanshi, "Hand Gesture Recognition Based Wheel Chair Direction Control Using AVR Microcontroller", International Journal of Advanced Research in Computer and Communication Engineering Vol. 5, Issue 3, March 2016.