

Movable Robotic Arm using Arduino

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***Abstract:** Our project is about movable robotic arm using Arduino and the main purpose of the project is to pick object and place it in another area. The main objective of using Arduino is to control the hardware with software is to achieve the user friendly task. The forces are created by servo motors which was used in joints. The forces that could easily help to move the object from one place to another. The robot is controlled by Arduino, which is already feeded by program. Arduino is pass the signal as per our requirements which was given to Arduino with the help of Bluetooth modular. They are used in factories to automate execution of repetitive tasks, such as applying paint to equipment or parts; in warehouses to pick, select, or sort goods from distribution conveyors to fulfil consumer orders; or in a farm field to pick and place ripe fruits onto storage trays. Robotic arms help keep workers safe by operating in environments that are hazardous and executing tasks that present high risk of injury to humans. We using the Bluetooth modular, Arduino UNO board, charging module, robotic links and the lithium battery are we used for the making for the entire project with the help of these the project is successfully completed.*

Keywords: Bluetooth modular, Arduino UNO Board, Charging module, Lithium battery

REFERENCES

- [1] D. Deva Prakash and P. Anantha christu Raj Design Of robotic arm Control Algorithm, vol-1, 2014.
- [2] D. Hanafi, M. Qetkeaw, R. Ghazali, M. Than, W. Utomo and R. Omar, "Simple Wireless Of robotic arm Control," International Journal of Communications, Network and System Sciences, Vol. 6 No. 1, 2013.
- [3] K. W. Weng, "Quadcopter," Robot Head to Toe Magazine, Vol. 10, 2011. Of robotic arm Control Gaponov. I, TALE, IEEE International conference, 2012.
- [4] L. Salih, M. Moghavvemil, H. A. F. Mohamed and K. S. Gaeid, "Flight Of robotic arm Control," Scientific Research and Essays, vol5(23), pp.3660-3667, December 2010.
- [5] Shah, K.N., Dutt, B.J., Modh, H., "Quadrotor–An Unmanned Aerial Vehicle", International Journal of Engineering Development and Research, (IJEDR), March 2014, ISSN: 2321- 9939, Volume.2, Issue 1, pp.1299-1303.
- [6] Kivrak, A.O., "Design of control systems of a robotic arm Control with inertial sensors", Master's thesis, Atilim University, December 2006.
- [7] Seung H. Jeong, Seul Jung, Tomizuka, M., "Attitude control of robotic arm Control using an acceleration-based disturbance observer: An empirical approach", International conference on Advanced Intelligent Mechatronics, 2012, Kaohsiung, Taiwan, PP.916-921.
- [8] Madani T., Benallegue, A., "Of robotic arm Control. "Of robotic arm Control for a Quadrotor Helicopter", October 2006, Proceeding of International Conference on Intelligent Robots and System, pp. 3255-3260.
- [9] Hoffmann, G. M., Huang, H., Waslander, S. L., & Tomlin, C. J Of robotic arm Control Flight Dynamics and Control: Theory and Experiment", Proceeding of American Institute of Aeronautics and Astronautics, 20- 23