## **IJARSCT**



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, December 2024

## The Mechanical Engineering Background Role in Study of Robotics

Nehal Fulzele, Anand Bagde, Aditya Chaware, Srujan Shende, Yash Kadam

Department of Mechanical Engineering

Dr. Rajendra Gode Institute of Technology & Research, Amravati, Maharashtra, India

**Abstract:** Mechanical engineering plays a vital role in the development and advancement of robotics. From designing and developing mechanical components to ensuring the overall performance, safety, and reliability of robotic systems, mechanical engineers are essential to the field. This paper highlights the key contributions of mechanical engineering to robotics, including mechanical design, dynamics, control, mechatronics, and interdisciplinary collaboration. By exploring these areas, this abstract demonstrates the significance of mechanical engineering in shaping the future of robotics

DOI: 10.48175/568

Keywords: robotics

