

# The Mechanical Engineering Background Role in Study of Robotics

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**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*

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