

# **Design and construction of a Robot arm control system**

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**Abstract:** This study aims to address the challenge of designing and implementing a control system for a robotic arm, meeting the high demands for precision and performance in the automation industry. Through the integration of theory and experimentation, the topic applies system modeling and analysis to develop an optimal solution. The expected results will contribute significantly to the advancement of robotics technology and provide a foundation for various specific applications.

**Keywords:** Robotics, Control Systems, Industrial Automation, Mechanical Engineering, Kinematics