

Control the Arm mover 6 robot arm on the product assembly line.

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Abstract: In the context of increasingly advanced industrialization and automation, improving the efficiency of product assembly processes is an urgent requirement. This topic focuses on researching and designing a control system for the Arm mover 6 robot arm to optimize the assembly process on the production line. Through this, the topic aims to build a flexible and efficient solution that helps reduce labor costs, improve product quality, and increase the overall productivity of the line. The research method combines automatic control theory with practical implementation experiments to ensure the feasibility and applicability of the system. The expected results will make an important contribution to the development of robot control technology in the manufacturing sector.

Keywords: Robot control, Industry 4.0, Assembly process optimization, Automated production line