

Building a practical model for industrial communication based on the PLC S7.1500 platform.

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Abstract: In the era of increasingly advanced digitalization and automation technology, building a practical model for industrial communication based on the PLC S7.1500 platform has become essential to meet the demand for improving production efficiency in industries. This project aims to research and implement an automated industrial communication system with effective control and management capabilities through the integration of PLC S7.1500 technology, including both theoretical structure and practical application deployment. Through this, the project hopes to contribute to the development of the automation industry while providing a useful practical foundation for students and researchers.

Keywords: PLC S7.1500, industrial communication, automation system, industrial control, digital application