

Simulation of flexible production process using PLC S7-300

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Abstract: This topic aims to research and implement a simulation of a flexible production process using the PLC S7-300 control system. Thereby, the goal is to address challenges in managing and optimizing the production process. The applied method combines theoretical research and experimentation to establish a model and evaluate the system's performance. Expected results will confirm high flexibility and automation capability, contributing to productivity improvement in the manufacturing industry.

Keywords: PLC S7-300, Production process simulation, System optimization, Automatic control, Production productivity