

Simulation of dual elevator operation for a 5-story building using PLC S7 300

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Abstract: In this study, we focus on simulating the operation of a dual elevator system in a 5-story building using hardware and coding based on the Programmable Logic Controller (PLC) S7-300. This aims to meet the need for optimizing operational performance, reducing traffic load, and ensuring safety for residents during movement. The research method combines theory and experimentation to design and implement the system. The results of the study contribute to providing a technical solution for upgrading existing buildings using dual elevators.

Keywords: PLC S7-300, elevator simulation, operation optimization, travel safety