

Design of a 10-floor elevator control system using PLC

Phan Thanh Hai

Abstract: This topic focuses on the design and implementation of an automatic control system for a 10-story elevator using a Programmable Logic Controller (PLC). The research context addresses the necessity of technological improvements in the freight and passenger transportation industry. The objective of the topic is to build an efficient, safe, and energy-saving system to solve issues related to current elevator performance. The research method combines theory with experimentation to ensure accuracy and feasibility in application. The expected results will contribute to improving the quality of transportation services and creating a reusable design model for similar projects.

Keywords: Elevator control system, PLC, Automation technology, Elevator safety, Energy optimization