

Design of an automatic parking lot model using PLC S7-1200 for Vincom Plaza Thai Nguyen shopping center

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Abstract: This paper introduces the topic of designing an automatic parking lot model at the Vincom Plaza Thai Nguyen shopping center. The reason for choosing this topic is to address the shortage of parking spaces and enhance parking lot management efficiency under increasingly high traffic density conditions. The objective of the research is to build an automatic parking lot system based on the PLC S7-1200, applying advanced technologies to improve service quality and operational efficiency. The research method includes theoretical study combined with experimental implementation to ensure the feasibility of the system. The expected outcome of the topic is to provide an innovative solution for future parking lot management, contributing to enhancing customer experience and improving the operational performance of the shopping center.

Keywords: automatic parking lot, PLC S7-1200, parking lot management