

Design of a home elevator using PLC S7-1200

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Abstract: In the modern context, the demand for enhancing living convenience and automation in the home environment is increasingly gaining attention. This topic focuses on designing a home elevator system using the PLC S7-1200 to meet requirements for safety, efficiency, and energy savings. The research methodology includes requirement analysis, control logic design based on PLC theory, and experimental implementation in a suitable test environment. The expected outcomes of this topic are not only the construction of an automatic home elevator system but also a contribution to the development of PLC technology applications in the field of smart interiors.

Keywords: PLC S7-1200, Home elevator, Automation, Control system, Interior technology