

Building a control and monitoring system for a barrier using a PLC interfaced with a computer.

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Abstract: In the context of increasing automation in engineering projects, building a control and monitoring system for barriers using a PLC (Programmable Logic Controller) connected to a computer has become an urgent requirement. This project aims to develop a practical solution for managing and coordinating barrier operations through a research process from theory to experimental application, in order to enhance the operational efficiency and reliability of the system. The methodology is based on a combination of theoretical analysis of PLCs and application deployment, offering advanced technical solutions. The expected result is an efficient and flexible barrier automation system, making a significant contribution to the access management industry.

Keywords: PLC, control system, barrier monitoring, automation, connected computer