

# **Control and monitoring of the Hanoi draft beer filling system using PLC S7-300**

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**Abstract:** This study aims to meet the need for modernizing the beer production process at Hanoi Draft Beer Factory by building an automatic control system (PLC S7-300) for the beer filling machine. By integrating PLC technology with actual equipment, the project proposes an effective technical solution to improve quality and enhance beer production productivity. The research method combines theory with experimentation to ensure the comprehensiveness of the system. The expected result is a complete automation monitoring system that helps the brewery operate more intelligently, thereby increasing competitiveness in the Vietnamese beer market.

**Keywords:** PLC S7-300, production automation, draft beer control, Hanoi Beer Factory, monitoring system