

Design of a smart drying yard model using NI myRIO-1900

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Abstract: This topic proposes a technical solution to optimize the drying process by designing and implementing an automatic monitoring system based on the NI myRIO-1900. The context for selecting this topic stems from the need to reduce drying time and ensure product quality in agricultural farms. The objective of this research is to build an intelligent drying environment control system that effectively adjusts conditions such as temperature and humidity. The method combines automatic programming theory with experimental implementation on the NI myRIO-1900 platform. The expected results will significantly improve the productivity and quality of dried products, while also creating a flexible design solution for similar applications in agriculture.

Keywords: Smart drying yard, NI myRIO-1900, Drying environment management, High-tech agriculture