

Building a smart seedling nursery using LabVIEW software

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Abstract: This study focuses on building an automated system for a smart seedling nursery using LabVIEW technology. The motivation for the research stems from the need for optimal methods in caring for and managing seedlings in agricultural areas. The main objective is to develop an efficient LabVIEW control interface to automate the germination process, environmental monitoring, and data management. The research method combines LabVIEW programming theory with system design experimentation. It is expected that this topic will make important contributions to the application of smart technology in agriculture and promote the development of the cultivation industry.

Keywords: LabVIEW, agricultural automation, plant nursery, environmental management, control interface