

Design a system for collecting data from sensors and transmitting it to the internet using the LabVIEW programming language.

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Abstract: In the context of increasingly enhanced collection and processing of information from IoT devices, this topic focuses on designing an efficient system for collecting and transmitting data from sensors over the Internet. The objective of the research is to build an automation solution based on LabVIEW, aimed at optimizing the process of collecting and processing information without affecting the operational performance of sensor devices. This approach combines theory on network protocols with experimentation on application deployment in the IoT field. Expected results from this research include providing a flexible and feasible solution for scientists and engineers, while contributing to the development of IoT technology.

Keywords: Data acquisition system, LabVIEW, IoT, Network protocol, Automation algorithm