

Building a wireless SCADA system using Wifi technology

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Abstract: In the modern context, remote management and monitoring of devices are becoming extremely important in many industrial fields. This topic focuses on the necessity of a wireless SCADA (Supervisory Control and Data Acquisition) system applying Wifi technology to meet this demand. The main objective is to build and deploy a remote management and monitoring system via Wifi network, aiming to optimize operational processes and reduce costs while ensuring safety and efficiency. The research methodology includes both theoretical aspects of wireless SCADA and field experiments to evaluate system performance. The expected results will contribute significantly to promoting the application of advanced technology in remote management and monitoring, while opening new opportunities for development in the IoT field.

Keywords: Wireless SCADA, WiFi, Monitoring Management, IoT System, Experimental Research