

Design of a gas leak detection alarm system for the gas kitchen workshop of the Gold Sun factory.

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Abstract: In production practice, the issue of gas leakage in the kitchen workshop of the Gold Sun factory not only poses safety risks but also carries the potential for fire and explosion. This project focuses on designing and implementing an automatic alarm system to detect leakage incidents early, aiming to ensure the safety of employees and the production process. Through theoretical research on gas sensors combined with experimental application of IoT technology, the project aims to develop an effective, cost-saving, and easily deployable solution for similar kitchen workshops. The expected results will significantly contribute to enhancing occupational safety and improving the working environment in the food processing industry.

Keywords: Gas alarm system, gas leak, IoT, gas sensor, occupational safety