

Design of a gas monitoring and alarm system for a student boarding house row.

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Abstract: This topic aims to research and design an automatic gas monitoring and alarm system for a row of student boarding houses. With the goal of ensuring living safety for students, the topic focuses on developing an algorithm for detecting gas concentration and designing a simple user interface. Through a combination of theoretical research and experimentation, the topic is expected to provide an effective solution for common living safety issues. The expected result is a system capable of automatically detecting and reporting gas incidents quickly, contributing to improving the quality of life for students.

Keywords: Gas monitoring, Alarm system, Student boarding house, Recognition algorithm, Living safety