TOP STUDENT PROJECTS

Best innovations from VTU, Kalaburagi

PROJECT TITLE

BREATHE SAFE HELMET



Team 51

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PROBLEM STATEMENT

Workers in incense stick industries are exposed to smoke, harmful gases, and dust particles every day during production, which can cause breathing problems and long-term health issues. Continuous exposure to unsafe working conditions increases the risk of respiratory diseases and affects worker safety.

SOLUTION

The Breathe Safe Helmet is a smart safety helmet developed to protect workers in incense stick industries from harmful gases and unsafe working conditions. The helmet is integrated with an MQ gas sensor to continuously monitor the presence of harmful gases and detect poor air quality around the worker.

When gas levels exceed the safe limit, the system immediately alerts the worker through a buzzer, allowing them to take necessary safety measures. An RFID-based identification system is included to track and identify workers using the helmet. The entire system is controlled using an Arduino Uno, making it simple, low-cost, and suitable for small-scale industries.





SCAN ME

Technology stacks:

Arduino Uno | Arduino IDE | C/C++ | Sensors