

Title: Gas Sensor Monitoring System Using Arduino and Mobile Application Switch Control

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EXECUTIVE SUMMARY

Engaging awareness to all consumers that will help prevent fire incidents and to contribute in developing awareness and creating an easy user interface that will catch the interest of all Filipino citizen how to be aware of.

This Capstone project is intended to develop a mobile application that uses these two important concepts by integrating hardware and software development. Controlling powerhouse line as a core component of its functionality. Aside from friendly user interface, users will also learn about being keen in their surroundings to prevent incidents.

The application was developed using Arduino UNO code using native coding and combined with JAVA Eclipse integrated in to one to evaluate components and functions inside the system.

The application has undergone a thorough testing process to ensure that it runs smoothly on Android platforms from Jellybean version 5.0 up to 6.0 – 6.0.1 version Marshmallow. The application features three (3), functionalities, from entire house line to individual socket and light house line can be controlled.

Keywords: Arduino Module, GSM Module Sim900