## GAS-IT ARDUINO BASED LP GAS USAGE MONITORING. DISTRIBUTION MANAGEMENT & CYLINDER BOOKING SYSTEM.

## Suraj Panditharathne

This report is submitted in partial fulfilment of the requirements for the Bachelor of Science (Honours) degree in Business Information Systems

**Department of Computing** 

Informatics Institute of Technology, Sri Lanka in collaboration with University of Westminster, UK

2021

## Abstract

While rapid technological advancements are impacting human life in a variety of ways as a result of rapid advancements in various fields, we also need to implement that technology so that we can make human life easier to live.

Since LPG production in our country is insufficient, it is not possible to supply LPG via pipes to every home. Major issue that LPG cylinder users face is that "they don't know exactly the status of LPG gas completion," which causes even more delay in buying a new cylinder, which is also inconvenient. Thus, ordering new cylinder, usage tracking comes into play for LPG users.

Difficulties in finding the delivery location to deliver, keep a track on LPG sales and inability to manage orders through a system are issues face by LPG service providers. Thus, difficulties in predicting the quantity of gas cylinders needed for a specific period of time and these issues could result in a stock shortage and, as a result, a delay in supply.

This project Gas-it proposes a method that will address issues face by LPG users and LPG service providers. The solution has been designed and developed which is capable of functionalities such as check LPG levels, order LPG cylinders, find delivery location, track LPG sales where address to solve identified problems of both LPG users and LPG service providers. And the developed solution was tested and evaluated by industry professionals and end users as well.