**Chapter 4**

**PRESENTATION, ANALYSIS AND INTERPRETATION OF DATA**

**Components of the Proposed System**

The researchers’ components of the proposed system are Arduino uno r3 for microcontroller board. 10 ohms and 100 ohms resistors, passive infrared sensor, a Grove LED display 16x2 IC2, GSM module, sim900 GPRS shield, wire, 5v power supply and lastly

a UVC.

**System Implementation (Hardware)**

The model development stage consists stages of modeling, design and analysis. The researchers study different sanitation chamber, ultra violet chamber and sanitation device. The researchers ponder that the chamber must have the capability and strength to hold and sanitize objects with size of at least 50cm in height and width. After studying different sanitation chamber models and considering the researchers requirements, the researchers come up with the following model dimension.

\*Insert model dimension image here\*

The researcher’s requirement must have also that the device is mobile and have the capability to move around effortlessly. the device must also have the capability to smoothly insert objects inside the chamber. And to finish, the device must also be pleasant to look at and have the capability to blend to commercial sanitation chambers in market. The researchers come up with the following model design.

\*Insert design image here\*

Lastly, the design analysis data will be gathered from the survey to be conducted. Specifically, how does the automatic disinfection box be described in terms of satisfaction and cost.

**Materials and Specifications**

angle bar

galvanized steel sheet

caster wheels

galvanized mesh

¼ glass

Stainless handle

Steel hinges

Door catchers

Glass putty

Teks screw

Insulation

Rugby

spray paint white

spray paint clear

**Detailed Procedure**

**Block Diagram**

**flow chart**

**Source Code/Software**

**Component Analysis**

**Schematic Diagram**

**Fabrication of the Device**

**Functionality Testing**

**Survey Results and Discussion**