CSE360: Lab SEC 03

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Group Name: Urban Threshold

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Project Proposal

Project Name/Title: Fire and smoke detector system

Project Overview: In this project we are going simulation based project development which is fire and smoke detector system. It saves lives by warning building occupants of emergencies so they can get out of danger. The typical components in a fire alarm system that provide protection and life-saving benefits include: A primary/secondary power supply, including batteries. A sensitive carbon monoxide and/or smoke detector. Audible alerts and other notifications. Pull stations, smoke alarms, and other initiating devices. A control panel for constant monitoring and dispatch management. However, once installed, fire and smoke detectors are easy to use. It is not expensive at all. So, it has lots of usefulness and advantages in our daily life.

In the proteus we implement our expected equipment to establish our desired project. Here, we use 2 sensors which are detecting flame and gas. When no flame or gas the Green LED turned on, whenever there is a fire the flame and gas sensor received and the RED LED turned on. However, the servo motor rotate and sounder makes sound. In the arduino we will write the efficient code to run the project successfully. In the labview we make necessary Graphical User Interface (GUI) of our project. We are using some indicators, charts to represent our value.

In this way, we are going to complete our task.

Expected Equipment:

- Arduino Uno,
- Virtual terminal,
- Flame sensor,
- Gas sensor,
- Sounder,
- Servo motor,
- LED,
- LabView GUI,
- Arduino software
- Proteus etc.