CSE360: Lab SEC 01

Fall – 2021

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Group Name: Team 8086

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Project Proposal

Project Title: Home Automation System

Project Overview

The Home automation System is designed for early detection of harmful gases/smoke, human presence in the room. The light will turn on if there is any human presence and the fan will turn on if the room temperature crosses the given limit. If there is any harmful gas or smoke in the house then the gas sensor will detect the smoke or gases and will start ringing buzzer along with giving signals through LEDs.

To make our project happen, we will use 4 software which are:

- Arduino
- Proteus 8
- LabVIEW
- Virtual Serial Port

Expected Equipment

The Home Automation System consists of many components, including:

SL.	Required Components	Quantity
1	Arduino Uno R3	1
2	PIR Sensor	1
3	Gas Sensor	1
4	Buzzer	1
5	LED (Green and Red)	2
6	Com Physical Interface Module	1
7	Resistor	2
8	Temperature Sensor	1
9	Humidity Sensor	1