Problem Statement Form

for VIP and Design Class

Date: 10/3/17

Team Name	N.W.A (No Wires Allowed)	
Team Project Title	Wireless Sensor Network	
Team Advisor	Dr. Hassan Salmani	
Team Assistant		
Team Members	Senior Design Class Students	Sean Grant Kolby Lacy
	Other Students	
Team Project's Long Term Goal	Develope a design schematic for a wireless network system that records signals from temperature sensors, analyzes said signals, and then transmits output signals to control the AC.	
Team Project's 2017-2018 Academic Year Goal	Implement network system in a demonstration in order to show the management of ~~heat~~ electricity usage for heating and cooling and improve convenience in temperature management.	
Problem Statement	Dissatisfied Situations	Itemize: The central air system installed within the Lewis K. Downing building can be in only heating mode or cooling mode which is not efficient.
	Needs from the Situations	Itemize: A system is needed to dynamically manage the heating and cooling central air system based on the temperature measured in a room.
	1-Sentence Problem/Need Statement	A complete sentence: Currently, the central air system with Howard University's Lewis K. Downing building can only be in heating or cooling mode at any given time which is not efficient temperature management, raising a need for a wireless sensor network system to dynamically manage the building's central air unit based on the temperature in a room for a given period of time.