**HouseCom™ ThermoSecurity™ System**

Group project and submission. This assignment is **worth 15%**

Assignment Description

The basis of this assignment is to create an interactive application using 3D, video, and still images. Design and develop an engaging experience for the end user with which they can interact in a one-page

mobile-first web application.

This project will be a collaborative effort between all of your IDP classes.

Product Description

**HouseCom™ ThermoSecurity™ System is a fully digital, hardwired and wireless (WiFi, Bluetooth)**

**enabled home personal and secure environment control system** . All communications with the central system are accessible and controlled through the wall unit, product app. and the secured portal on the parent website. The HouseCom™ ThermoSecurity™ System App. is available on both iOS and Android devices. Whether you wish to adjust the temperature of your home from your Android or iPhone watch or access the home security system on your phone to check in on the house occupancy through the remote, portable cameras. You may wish to look for independent room temperatures, smoke and carbon monoxide status or just open windows and unlocked doors for your return home.

All of this functionality and more are part of the capabilities of the HouseCom™ ThermoSecurity™ security and environment system.

Features

**Proximity sensor:** Actives system to on state when viewer is close.

**Facial recognition camera:** To allow admin users to manipulate settings (child proofing)

**GUI:** The ability increase/decrease the temperature difference between my heat/cool set-points. Comes with built-in Amazon Alexa Voice Service Regulates indoor humidity to prevent frost buildup on outside windows. The ability to view Current indoor temperature, outdoor temperature, daily forecast, weekly forecast. See [**https://nest.com/ca/thermostats/nest-learningthermostat/overview/**](https://nest.com/ca/thermostats/nest-learningthermostat/overview/)for an example of a smart thermostat.

Submission Deadlines

All assignment material for each class must be submitted on Tuesday, October 8th by 9:00 a.m.

Grade Value for this assignment :

Total = 15%

Your grade for this assignment will be based on how closely you follow the requirements

Motion Designer

* Each group is required to model and render images of a smart thermostat for use in an interactive application. Each group is responsible for all stages of this product, from modelling to final GI render.
* To maintain the dimensional integrity of the **HouseCom™ ThermoSecurity™ System** use these settings in Cinema 4D as your starting point.
* Pay close attention to all supplied reference images of HouseCom™ ThermoSecurity™ System to model, texture, light and render an accurate representation for the final product. All textures including your own unique GUI are to be used in the final render. All teams will be provided with HDRs to add realism to images.
* See references on FOL (Motion Design 2/Content/Hackathon)

Submission Requirements

A folder named **LastName\_FirstName\_LastName\_FirstName\_Hackathon.zip.**

**Folder must contain the following**

* A Cinema 4D file with assets (Named “Smart Thermostat.c4d)
* At least 6 rendered stills (Numerically Named “Smart Thermostat 1.jpg” presented as a single PDF file
* A rendered animation for use in the application. The movie's aspect ratio must be 16X9 and have a size of 1280 X 720 pixels (Preset: HDV/HDTV 740 29.97). Final movie must be compressed as a mp4/.h264. Uncompressed movies will not be graded. The final render can be used in whatever manner you like.
* One text file with the names of all group members.