**Work Package**

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**Date:** 11/12/2021

**Project:** Thermal Temperature Sensor

**Project Tasks Spring Semester 2022**

\*Sub-list is in no explicit order

\*Red font is updated tasks after submission date

Pre-Prototype Implementation

* Outline important goals for our products “Communication with Consumers” properties
  + Logic
  + Physical Orientation
  + Consumers needs
* Keep a line of communication with EmberHope for prototype implementation
  + Line of contact: Lori Gonzales
* Begin Prototype structure design
  + Use CATIA-V5 for design
  + Basic to amateur understandings of CATIA are needed
  + Design to accommodate all hardware needs and consumer needs
* Last meeting with EmberHope before implementation
* Find best situations for testing
  + Record repetitions and best scenarios
  + Design “Good” and “No Good” Scenarios

Prototype Implementation

* Find best possible place for prototype at one of EmberHope’s buildings
  + Meet with Lori Gonzales
  + Best exposure setting
    - No window light ect.
* Initiate device to EmberHope work force
  + Knowledge about the device is needed
  + Explanation of what we are looking for
  + How, why, etc.
* Design survey for product reflection from EmberHope employees
  + Need: emails, good survey question, and how to use answers to help improve prototype

Post Prototype Implementation

* Implement feedback from EmberHope to improve prototype design
  + Timing, Consumer Communication, user friendliness, and accuracy.
* Is power source improvement needed?
* Final product design
  + Python knowledge for logic improvement and communication timing improvement
  + Mechanical design improvements

Power Consumption and Supply

* Technical document of necessary power need for all components
  + Choose appropriate battery
* Assist in any Electrically oriented tasks
  + Group member (Lexi) is focusing on power protection and conservation