**Software Design Considerations**

For

**Project: (TrangTest)**

**WinForms Application**

Date created: 4/28/2018

Date updated: 4/28/2018

# Audience

The audience of this document is intended to be Paul Trang and his associates.

# Disclosure

There are no disclosure considerations.

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# Considerations

During the design of the application I hadn’t considered creating a data type of Temperature. After creating the data tables to store data, and looking at the work, I decided to change this to include a data type of Temperature to include the temperature value and type (Celsius or Fahrenheit). This made it easier to handle the temperatures as they came into the thermometer class’s input method.

The wrapper project that allows the user to create and edit alerts would need to be included in any other implementation, and the thermometer project could not be distributed as-is without it. However, by adding a reference to the Library project, and subscribing to the events other software could easily use this project to test sent temperatures against the alerts set up by this project.

# Data Changes

I included a TemperatureThreshold class in which I saved named temperatures. I had intended to allow multiple alerts to be set up for the same temperature. However, upon further deliberation, to allow me to finish the project in the time allowed, I decided against it, as it would require further data control to ensure that removing an alert left the matching TemperatureThershold record untouched. So these two data tables are a one on one match.