Model HVAC Project Goals

The goals of this project are the following:

Using fischertechniks and ROBOPro, build a prototype HVAC system to maintain a certain tolerance of temperature

A light should indicate whether the fan or the lamp is on

A control panel should count the number of seconds the fan or lamp has been on

Fully comment all functions within the flowchart program

Rubric Points

Here I will consider the rubric points individually and describe how I addressed each point in my implementation.

Physical Construction

1. Design Constraints - All design constraints are met and the prototype goes above and beyond.

My project includes the following elements to meet the design constraints:

At least 1 lamp.

At least 1 fan.

2. Repeatability of Function - The build is repeatable 100% of the time.

My build includes fischertechnik components to ensure repeatability. For example,...

ROBOPro Programming Software

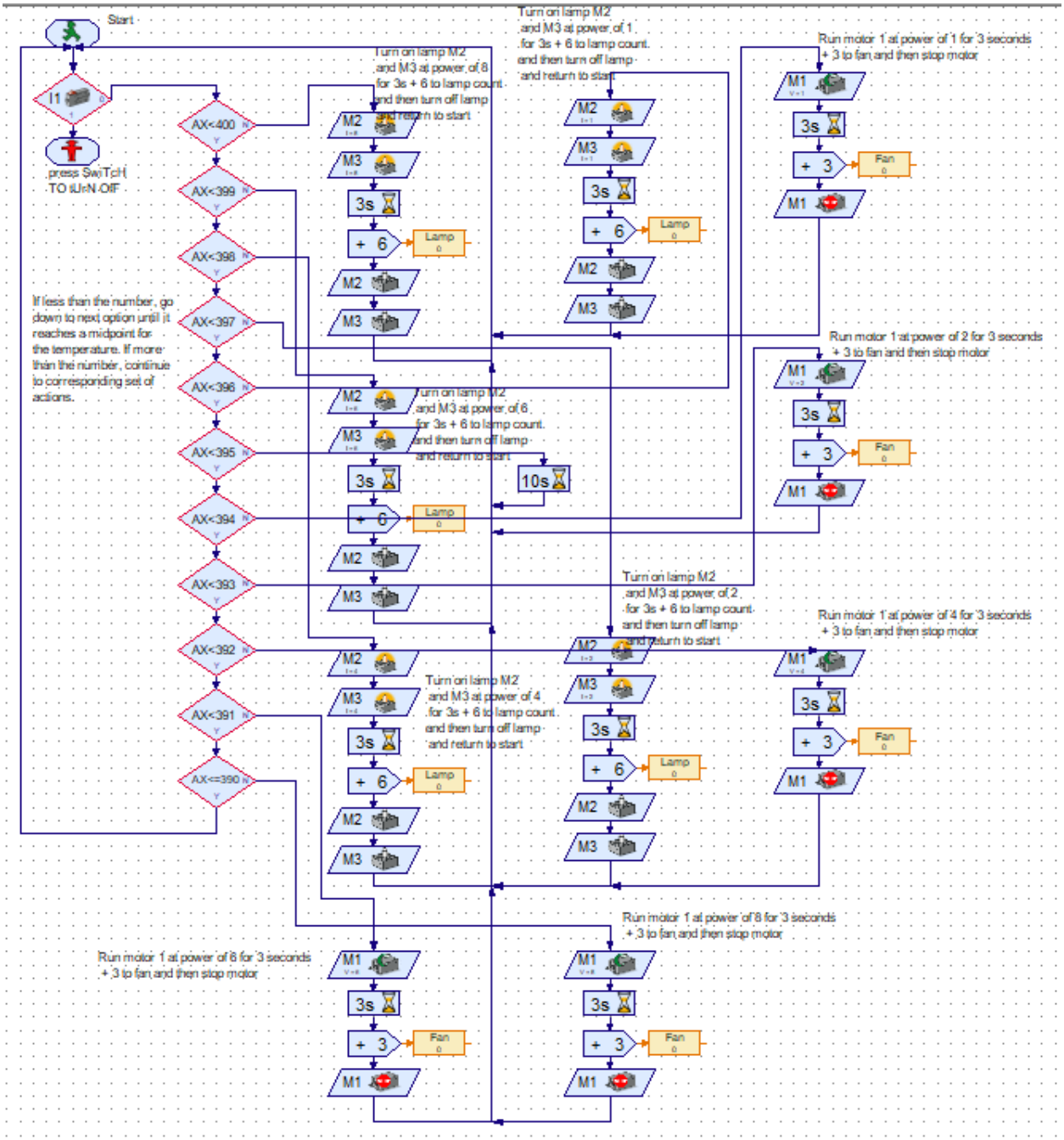
1. Design Constraints - All design constraints are met and the prototype goes above and beyond.

My project includes the following elements to meet the design constraints:

A light indicates the function of the lamps and fan.

There is a variety of settings for less cost and stays near a certain temperature.

Here are some pictures of my code:



2. Repeatability of Function - The build is repeatable 100% of the time.

My build includes certain loops and functions to ensure program repeatability. For example,...

Here is where the code is implemented and integrating with my physical build: