**Intelligent Drink Warmer**

**Project Team Members**

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**Project Summary**

Our project is to create a temperature regulating hotplate that keeps your drink at a certain temperature that you set.

**Goals and Objectives**

Our project’s main goals and objectives are to be able to warm up drinks and keep them at the preferred heat. It could help people keep their drinks heated if they can’t move as much, like if they are elderly or have physical problems.

**Github Repository**

This project's Github repository is located at: https://github.com/Xenipulator/CSC132\_Group3\_Project.git.

There have been 35 commits and it has one branch.

**Bill of Materials**

1xArduino, 1xThermometer/Thermistor, 1xRaspberryPi, 1-3 Relays, 1xBreadboard, 1xHotplate/resistor(heating element),1xCup.

**GPIO and GUI**

1. We used the GPIO to control a transistor connected to a relay that sends 120v to our heating element. We also introduced an Arduino into our circuit with the sole purpose of monitoring temperatures. 2. We integrated an easy to understand GUI that allows user input via touchable buttons.

**Gantt Chart**

A screenshot of a cell phone

Description automatically generated

**Future Development Plans**

We could use a more advanced hotplate to where it doesn’t take as long to drop back or heat up to the temperature that you’ve chosen for your drink.

**Lessons Learned**

I learned that there is a lot of different things we are able to use our raspberry pi’s for that make them really interesting. It had us work together on problems so we could get the project finished and we would all try and find something that helped with the problems. It will benefit us that we are more capable at working together on one project together and had to be willing to compromise on things and actually work together or else it wouldn’t have got finished.