

sdmay19-47: NSF Lab furnace control system

Week 1 Report

January 14th- January 23rd

Team MembersAdam Matthews — *Software/Hardware Engineer, Report Manager*Kevin Lang — *Electrical Engineer*Jeremy Hartl — *Hardware Engineer*Christopher Pohlen — *Software Engineer/Gitlab Moderator*Nick Brylski — *Systems Engineer***Advisor/Client**

Dr. Gary Tuttle

Summary of Progress this Report

Our client, Dr. Tuttle, is still working on determining what kind of mass-flow controllers we will be using. We have begun investigating connectors for the MFCs and our planning on buying some next semester to begin testing the system on a real mass flow controller. So far our results have been tested on multimeters which is not the real thing. We also need to find connectors for the OTC controller.

Pending Issues

The GUI still needs a large amount of work done, we are still learning how to create a GUI with the Tkinter library as it is not simple task.

The client has also specified that he would like some redundant displays readouts, so if the computer running the GUI were to fail the values of the readouts could still be seen.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Adam Matthews	<ul style="list-style-type: none">Met with Dr. Tuttle and discussed plans for semester with group	2	2
Kevin Lang	<ul style="list-style-type: none">Worked on analog read function	3	3
Jeremy Hartl	<ul style="list-style-type: none">Helped make demo videos	3	3
Christopher Pohlen	<ul style="list-style-type: none">Worked on the GUI	3	3

Nick Brylski	<ul style="list-style-type: none">• Added analog read function and parsing to arduino mega	3	3
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Gitlab Activity Summary

Nothing to report.
