

CS 4910 – Software System Development and Design II: Implementation and Testing Project Progress Report

Project Information:

Team Members:

Anthony Kirkland
Macallister Armstrong
Lorand Mezei
Jeremy Evans

Client:

Allin Kahrl, Department of Engineering Design, Manufacturing and Management Systems

Advisor:

Mr. Colin MacCreery

Report Date:

02/27/2021

Team Activity Report:

What has your team done since your last report. Indicate team meetings with a brief description of what was discussed, and a breakdown of any other activities your team engaged in since your last report.

We wrote a shell interface within which to enter commands based on the functionality Allin desired (and indicated previously in a wish list last semester). We have not implemented the actual functionality yet, only the command set (which currently route to printed responses and return nothing). Since much of the testing can only be done with the hardware Allin ordered (and will receive soon), we have not met with him this week.

Client Interaction Report:

Have you met with your client since your last report? What was discussed? What feedback did you client give you on your progress? Did you demonstrate a prototype?

We have not met with our client this week, since much of the testing framework requires the hardware Allin ordered (namely a thermocouple-to-digital converter and a test environment designed to mimic an oven).

Milestone Review:

Briefly describe the phase of your project that you are currently working on. What is the planned date of completion for this part of your project? Are you ahead of schedule, on schedule, or behind schedule?

We are currently working on two things:

- 1) Writing a serial interface through which to set PID gains and monitor temperature (as read through the ADC).
- 2) Implementing the PID algorithm in the MSP430 (stuck on a framework with which to test it).

We plan to finish both by 3/6/2021 at the latest and are on schedule.

Issues (or stories):

What issues are you currently working on? These are smaller tasks that are part of accomplishing your current milestone. They are also referred to as stories.

For [1]:

- 1) Parse arguments from the user and implement error checking (ensure that values entered for the gains are integers).

For [2]:

- 1) Display ADC (i.e., current temperature) values to the interface

Problems and Risks:

What problems have arisen, if any? How do you plan to address these problems and stay on schedule? Do you foresee any risks that may impact your project? If so, what are they and how do you plan to mitigate them?

No problems have arisen at this time.