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:
03/06/2021

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 are improving our shell interface with input validation. Again, we have not implemented the actual functionality yet, only the command set (which currently route to printed responses and return nothing). We are also actively researching and generally implementing the PID functionality, since much of the testing can only be done with the hardware Allin ordered.

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 met briefly with Allin to get a better understand of what some of the input variables are supposed to do. We also chatted through Microsoft Teams. Allin mentioned that he has the hardware. He will put our tests projects together and we should have them in hand by Wednesday.

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).

3) Writing to flash

We plan to finish 1 by next week. We plan to have a good understanding and implementation of 2 and 3 within the next two weeks.

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 [3]:

1) Finding examples for writing to flash using the msp430.

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.