

EE 492 Status Report 2
Sept. 29 - Oct. 5
Sddec24_04
Sukup RTD Board Tester Kit
Client: Sukup (Dana Conrad)
Advisor: Nathan Neihart

Weekly Summary:

This week we focused on finishing our schematic diagram and getting a start on the PCB layout. We also got our MCUs delivered and we were able to start writing some simple scripts to get used to using the MCU since none of us have worked with it before.

Past week accomplishments:

Team Member 1(Justin): I wrote a script for the MCU to receive a single character and send it back to the terminal using the uart capabilities of the MCU.

Team Member 2(Tony): Worked on looking into using a 3D printer to construct the casing that will house our finished PCB.

Team Member 3(Sam): worked on writing scripts for the microcontroller. Was able to do intro level scripts for LED and uart communication

Team member 4(Michael): Finished pcb schematic and began layout and board sizing.

Pending issues:

Team Member 1(Justin): No current issues

Team Member 2(Tony): Review the PCB schematic and layout and get started on the modeling of the case for 3D printing. Find a new 120VAC to 24VDC converter that outputs through a barrel jack.

Team Member 3(Sam): no current issues

Team Member 4(Michael): Completing pcb layout.

Individual contributions:

Name	Hours this week	Hours Cumulative
Tony Haberkorn	2	5
Samuel Estrada	3	
Justin Garden	3	6
Michael Hurley	3	6

Comments and extended discussion

Plans for the upcoming week

For the upcoming week we are going to finish our PCB design and review it with Dr. Neihart. We are also working on further familiarizing ourselves with our MCU and getting a start on writing some scripts closer to what we will need for our final product.

Summary of weekly advisor meeting:

Met with our advisor and updated on PCB development. Had a schematic review as well as layout placement discussion. MCU programming initial steps made and talked about the libraries available for programming our final design.