

EE/CprE/SE 491 WEEKLY REPORT 4

March 2- March 15, 2021

Group number: 47

Project title: Triple Output Power Supply

Client &/Advisor: Dr. Tuttle

Team Members/Role:

- **Benjamin Almquist- Test Engineer**
- **Mary Le- Test Engineer**
- **Michael Neilson- Technical Expert**
- **Adam Simodynes- Report Manager**
- **Krishan Sritharan- Meeting Scribe**
- **Chance Webster- Meeting Facilitator**

○ **Weekly Summary**

The group met for reporting progress made throughout the two weeks. During this time, we finalized the parts list for the first order and found more parts for the second order. The group ordered the list of parts needed for building the circuits to be able to test in later weeks.

○ **Past week accomplishments**

- Ben
 - Designed an electronic load circuit prototype for testing voltage regulators.
- Mary
 - Finalized regulator schematic for the switching regulator, made progress with adjustable circuits and inputs and outputs of MCU.
- Michael
 - Interfaced the 1602A LCD module with the MCU
- Adam
 - Designed an electronic load circuit prototype for testing voltage

regulators.

- Krishan
 - Getting parts together via Digikey and finalizing the order by the end of the week.
- Chance
 - Finalized parts list for first order and selected more parts for the second order.

○ **Pending issues**

- No pending issues thus far.

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Ben	<ul style="list-style-type: none">○ Designed an electronic load circuit prototype for testing voltage regulators.	5	20
Mary	<ul style="list-style-type: none">○ Finalized regulator schematic for the switching regulator, made progress with adjustable circuits and inputs and outputs of MCU.	6	20
Michael	<ul style="list-style-type: none">○ Interfaced the	10	25

	1602A LCD module with the MCU		
Adam	<ul style="list-style-type: none"> ○ Designed an electronic load circuit prototype for testing voltage regulators. 	6	22
Krishan	<ul style="list-style-type: none"> ○ Getting parts together via Digikey and finalizing the order by the end of the week. 	3	17
Chance	<ul style="list-style-type: none"> ○ Scheduled time to test in TLA and selected parts for second order 	5	19

○ **Plans for the upcoming week**

- The plan for the upcoming week is to wait for the parts order and go to the TLA to test our circuits to verify their functionality. If any problems occur we will troubleshoot them until they are all resolved.

○ **Summary of weekly advisor meeting**

- The group continues to try to meet with our advisor, however there are very few times that work for a majority of us and him as well. We have emailed him many times regarding ordering parts and he gave us the information needed to order the necessary parts. He has also let us know that he does not want to have a consistent meeting time but when we need to meet with him to either reach out or to attend his office ours.