Present: Mack Hall, Jorian Bruslind, and Zach Bendt

Absent: N/A

ECE 342

1/17/19

Prof. Shuman

Week 2 In-Class Group Meeting Notes

* Each member should be ready for the upcoming block checkoff
  + Has been double-checked with client, due to unique layout of project
    - Client solely requires that the PCB be ordered, while we already have PCBs in hand
      * Our group is very much ahead of schedule
  + PCBs will still be built and tested incrementally in order to ensure functionality
  + The case is the only other ‘block’ that will need to be checked-off in the future
    - Block diagram could potentially need updating to reflect this
      * Interface definitions/properties should not need updating
* Provisional PCB testing is underway
  + A few non-fatal “quirks” have been caught already
    - A few resistor package sizes should be tweaked for easier soldering
    - USB-UART bridge package size may be changed in the future for easier soldering
    - XC60 transformer leads are accidentally switched
    - Relay footprints will be tweaked for easier soldering
    - All quirks are being documented to be mitigated in future board revisions
  + USB-UART bridge is functioning properly, allowing for custom code to be uploaded to microcontroller
  + Once testing is done, another revision of the board will be designed and ordered
    - Next revision also plans to include additional contact info for group members (email, websites, etc.)
      * QR code for documentation also being considered
    - Once board design is finalized, the case design can be finalized as well
  + Fuse testing requires >5A, while Dearborn lab supplies only go up to 3A
    - In contact w/ Dr. Brekken in order to source more powerful supply
    - Could also potentially build a custom current source as well, but don’t want to spend time/money if unnecessary.
* Group meetings plan to continue every Thursday
  + Communication frequency and quickness in Slack and in-person discussions are satisfactory and should be continued
    - Any additional questions/comments/concerns are highly encouraged to be asked through these channels