Present: Mack Hall, Jorian Bruslind, and Zach Bendt

Absent: N/A

ECE 342

2/21/19

Week 7 In-Class Group Meeting Notes

* 2nd Revision PCB undergoing further testing
  + Transformer now linked to input plug and PCB
    - During testing, transformer shorted, died after trying to utilize newly exposed USB ports
      * Most likely due to low quality of sourced component
      * Could potentially no longer expose USB ports in future revisions
        + Could also use a different model of transformer as well
        + Final case layout is still subject to change
  + I2C voltage and current sensing code is still under development
    - Further debugging has taken place
      * Still inaccurately reading voltage
      * I2C-experienced Senior has not responded to call for potential help
    - Analogue current sensing code is functioning properly
      * Only needs minor modification before production version
  + App now organizes bluetooth communication packets in a more effective manner
    - Further troubleshooting needed relating to quickly switching relays on/off
      * Sometimes randomly loses connection to MCU
    - Will need to send custom bluetooth packets in the future
      * More research into topic is needed
  + WiFi communication framework is under development
    - Utilizes NodeRed servers to update voltage and current values to user
* 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
* Next steps
  + Try to fix newly introduced app bugs
  + Try to fix I2C communication between current/voltage sensor and MCU
    - Contacted Scott Merrill about potentially looking over code
  + Introducing/developing WiFi capabilities
  + Stress test mounted components
  + Further revising/printing enclosure