

Senior Design Meeting Agenda — Microgrid Team

10:00AM Thursday, April 29th, 2021

205 Stinson Remick

Meeting Leader: *Sylvia*

Secretary: *Brian*

1. Follow-up on PCB build

- a. They work!

2. UART updates

- a. Multiplexing

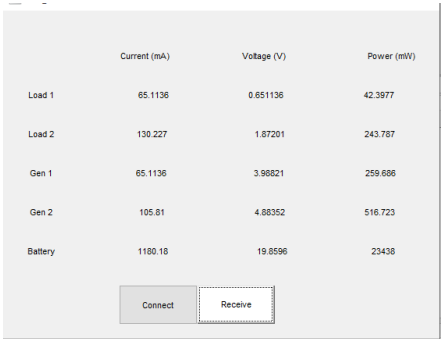
3. Display Subsystem updates

Previously:

- A GUI that reads raw data from serial port as receive button is clicked

Current setup:

- A GUI that analyses the structure of the raw data, and separates them into their respective fields for processing
- A function that scales the incoming data representing current, voltage and power into milliAmps, Volts and milliWatts respectively
- GUI updates data constantly based on continuous stream
- 10 values presented



	Current (mA)	Voltage (V)	Power (mW)
Load 1	65.1136	0.651136	42.3977
Load 2	130.227	1.87201	243.787
Gen 1	65.1136	3.98821	259.686
Gen 2	105.81	4.88352	516.723
Battery	1180.18	19.8598	23438

Connect Receive

4. Next steps

- a. Be ready to demo next Thursday!
- b. Ensure logic for switching makes sense
- c. Connect extra batteries for local storage point
- d. Connect earth ground

- e. Final test of system
- f. Update website with team member pictures and descriptions, new photos and documents