## Nov 7, 2023 | [Senior Design Team 50 Biweekly Meeting](https://www.google.com/calendar/event?eid=MnBuOTRzNTVvNDJwOW4xN240NmhmZG1pYWpfMjAyMzEwMjRUMTMwMDAwWiByYWJhaWxlM0BuY3N1LmVkdQ)

Attendees:

| Present [Huangjie Gong](mailto:huangjie.gong@us.abb.com)  Present [Andrew Bailey](mailto:rabaile3@ncsu.edu)  Present [Manny Harris](mailto:erharris@ncsu.edu) | Absent [Jeremy Edmondson](mailto:jedmond2@ncsu.edu)  Present [Labib Kasim](mailto:lkasim@ncsu.edu)  Absent [Ralph Cullom](mailto:rmcullom@ncsu.edu) |
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Action Items

[Team Charter - 50\_ResidentialPowerDisaggregation\_Fall\_2023](https://docs.google.com/spreadsheets/d/19QlSl8Cbm5M9cFBJFcICrvQb3tRDH6ZTBHSlsWt19BE/edit#gid=770004057)

Agenda:

* **Walk in item solicitation**
* **Reminders for upcoming deliverables**
  + 11/10 - Project Pitch Video
  + 11/10 - Update Project Name - possible
* **Previous Action Items**
* **Critical Review 1 & Tech Demo**
  + Project / Subsystem goals for crticial review (last week of November)
    - Overall project goal - reference timeline
    - Subsystem goals - reference tasks
      * Subsystem integration
      * Possible risks, **bottlenecks**, & questions
        + ESP32 reading CT measurements to influx

Manny & Andrew

* + - * + Adding weather data to measurements
        + Sending data from influx to and from model

Labib and Ralph

* + - * + Displaying on grafana

Walk in items

[Reading CT measurements to influxDB](https://github.com/CircuitSetup/Expandable-6-Channel-ESP32-Energy-Meter)

-Reading MQTT straight to influxDB from EmonESP

-EmonCMS sending data to Influx as applicable format

-local installation of influx on raspberry pi

-[ESPHome](https://esphome.io/components/sensor/atm90e32.html) with Influx

ML Error Calc

-decrease resolution for error calculations

-time of use rates ([South edison](https://www.sce.com/residential/rates/Time-Of-Use-Residential-Rate-Plans) & duke)

InlfuxDB for data storage

-adding weather column based on timestamp and location

-removing bad values (nulls, disconnects)

-sending inputs and receiving outputs from model