My Meeting Takeaways

# Metadata

* **My Main Task: Tomato Harvest Robot V3 Electrical Control Box Design**
* **Link to my “Living technical Note”: not ready yet**
* **Meeting Date: 2025-09-19**

# 2. The Core Discussion (The "What")

## Key Discussion Point or Finding Presented**:**

*(what was the main result or problem you presented for this task?)*

*Haven’t present yet*

## Professor's Feedback / Key Decision:

N/a

# 3. The Commitment

## My Resulting Action Item:

*(Based on the discussion, what is the single, specific, and measurable action that you now personally own? This should include a self-proposed* ***deadline****.)*

I will complete the **system schematic** and the **initial electrical control box layout draft** by next week:

* Use **KiCad** to create a complete schematic diagram, including both high-power and low-power systems, the battery, DC-DC converters, Jetson, microcontroller, motor drivers, and protection components such as fuses.
* These documents will serve as the foundation for the subsequent control box design and wiring optimization.
* The exact specifications of the battery and motor drivers (voltage/current requirements) must be confirmed; otherwise, there is a risk in power module selection. I will do a research on each electric component to make sure they can work properly.

**Deadline:** Before next week’s meeting

## New Dependencies / Blockers:

*(Is your work now blocked by someone else? Does someone else's work now depend on you?)*

* I need the previous circuit design files or component list from my senior for reference and comparison with the new design, we will have a discussion next week.
* The layout draft also requires the latest chassis and control box dimensions from the mechanical team for accurate planning.
* Robot’s workspace is hot, so we have to discuss about the circuit configuration to avoid overheating problems